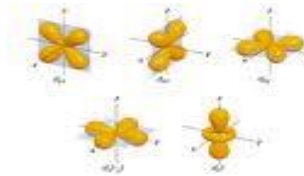
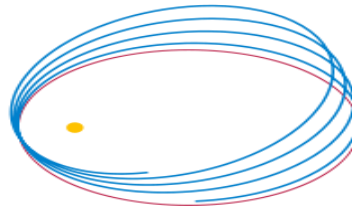
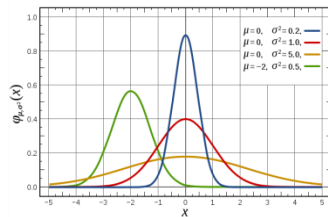


# WARKAH BERITA PERSAMA

Bil 16 (2) 2011/1432 H/1933 S  
(Untuk Ahli Sahaja)



## PERSATUAN SAINS MATEMATIK MALAYSIA (PERSAMA)

(Dimapankan pada 1970 sebagai “*Malaysian Mathematical Society*” , tetapi dinamai semula sebagai “Persatuan Matematik Malaysia (PERSAMA)” pada 1995 dan diperluaskan kepada “Persatuan Sains Matematik Malaysia (PERSAMA)” mulai Ogos 1998)

Terbitan “*Newsletter*” persatuan ini yang dahulunya tidak berkala mulai dijenamakan semula sebagai “Warkah Berita” mulai 1994/1995 (lalu dikira Bil. 1 (1&2) 1995) dan diterbitkan dalam bentuk cetakan liat tetapi sejak isu 2008 (terbitan 2010) dibuat dalam bentuk salinan lembut di laman PERSAMA.

# WARKAH BERITA PERSAMA

(PERSatuan Sains MAtematik MALaysia)

<http://www.persama.org.my>

Bil. 16 (2 ) 2011 M/1432 H/1933 S

(Julai 2011– Dis 2011/Rejab – Dzulh 1432 H/ Aswina/Asvina - Falgana/Phalgana/Phalguna 1933 S)<sup>+</sup>

Untuk Ahli Sahaja

Terbitan sebegini yang pertamanya ialah 1994/1995 (dikira Bil.1 (1&2) 1995)

Berkala dwitahunan



Penerbit: PERSAMA d/a Pusat Pengajian Sains Matematik UKM

Tel. 03-8292728; faks. 03-8293289; <http://www.tmsk.itm.edu.my/~persama>;

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+ Nama bulan orang Pascabima/Malayonesia sebelum Islam ialah mengikut bulan Hindu dalam bahasa Sanskrit: Caitya/Chaitra/Caitra (30 / 31\* hari) mulai Mac/Maret 22 / 21\*, Waisyaka/Vaisakha (31 hari) mulai April 21, Jesta/Yaistha (31 hari) mulai Mei 22, Asadha (31 hari) mulai Jun/Juni 22, Syrawana/Shravana (31 hari) mulai Julai/Juli 23, Badra/Bhadra (31 hari) mulai Ogos/ Augustus 23, Aswina/Asvina (30 hari) mulai September 23, Kartika/Kartika (30 hari) mulai Oktober 23, Agrahayana (30 hari) mulai November 22, Pausa (30 hari) mulai Disember/Desember 22, Margasirsha/ Margasirsha/Magha (30 hari) mulai Januari/Januarius 21, dan Falgana/Phalgana/Phalguna (30 hari) mulai Februari/Februarius 20. (\* menandakan bulan untuk tahun lompat). Nama bulan yang dirakamkan pada prasasti (batu bersurat atau inskripsi) dalam bahasa Malayu/Melayu sejak abad ke-7 Masehi, yang dijumpai setakat ini, ialah Caitya (Chaitya), Caitra (Chaitra), Waisyaka (Vaisakha), Jesta, Kartika (Kartika), Margasirsha (Margasirsha), dan Falgana (Phalgana).

%%%%%%%%%%

## PERSATUAN SAINS MATEMATIK MALAYSIA

(Dimapankan pada 1970 sebagai “*Malaysian Mathematical Society*”, tetapi dinamai semula sebagai “Persatuan Matematik Malaysia (PERSAMA)” mulai 1995 dan berubah lagi kepada nama baru ini bermula Ogos 1998)

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#### Mantan Presiden :

**1994-2002:** Prof. Dr. Shaharir bin Mohamad Zain  
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**1989-90:** Dr. Seah Sek Wui  
**1988:** Dr. Tan Keng Teh  
**1987:** Dr. Abu Osman Md. Tap  
**1986:** Dr. Wong Peng Choon  
**1985:** Dr. Tan Sin Ling  
**1984:** Dr. Ng Boon Yian  
**1971, 1983:** Prof. Cheng Mei Choi  
**1982:** Dr. Lim Ming Huat  
**1973, 1975, 1981:** Dr. Lim Chong Keang  
**1979:** Dr. Tan Keng Teh  
**1977-78; 1980:** Dr. Seah Sek Wui  
**1974, 1976:** Dr. Chee Pak Soon  
**1970, 1972:** Dr. Cheong Chong Kong

#### Mantan Setiausaha:

**1994-97:** Dr. Mohd. Salmi Md. Noorani  
**1990-93:** Dr. Kurunathan Ratnavelu  
**1986-90:** Dr. Chia Gek Leng  
**1985:** Dr. Ng Boon Yian  
**1984:** Dr. Tan Sin Ling  
**1983:** Dr. Lim Meng Huat  
**1972, 1974, 1981-1982:** Dr. Seah Sek Wui  
**1979-1980:** Dr. Lee Choo Seng  
**1978:** Dr. Ng Boon Yian  
**1977:** Dr. Tan Keng Teh  
**1976:** Dr. Ang Beng Tong  
**1975:** Dr. Fon Wai Choo  
**1973:** Dr. Chee Pak Soon  
**1971:** Dr. Cheong Hock Aun  
**1970:** Dr. Cheng Mee Choi

#####

## *Peringatan Kepada Ahli-Ahli PERSAMA*

Bagi mengelakkan daripada gugurnya keahlian anda kerana tidak menjelaskan yuran 3 tahun berturut-turut, silalah lunaskan yuran anda dengan segera menerusi borang yang disediakan di bahagian akhir *Warkah Berita* ini.

%%%%%%%%%%%  
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## KANDUNGAN WB 2011, 16(2)

|                                                      |         |
|------------------------------------------------------|---------|
| BARISAN PENYELenggara WB PERSAMA                     | 3-4     |
| PEMIMPIN TELAH                                       | 4       |
| BARISAN PIMPINAN PERSAMA LANI                        | 6-7     |
| MELENTUR BULUH ( OMK, IMO DSBNYA)                    | 8-16    |
| BULAT AIR KERANA PEMBETUNG                           | 16-23   |
| STATISTIK AHLI PERSAMA SPT PADA Dis 2011             | 16      |
| MINIT MESYUARAT AGUNG PERSAMA 2009/10                | 16-18   |
| LAPORAN TAHUNAN PERSAMA 2010/11                      | 19-23   |
| PENYATA KEWANGAN PERSAMA 2009/10 & 2010/11           | 23-24   |
| BERITA PERSATUAN SN MATEMA ASEAN                     | 25-26   |
| DI PUNCAK DI MENARA GADING                           | 27      |
| GELANGGANG AKADEMI AWAN (UKM, UM & UPM)              | 27-78   |
| ADA HASIL NUKIL / ADA KERTAS BERGEGAS/               |         |
| ADA KARYA BELAYAR/ TERBIT ATAU TERAPIT DI            |         |
| PENERBITAN UKM 2009                                  | 27-45   |
| PENERBITAN UM 2009                                   | 45-54   |
| PENERBITAN UPM 2009                                  | 54-75   |
| SEMINAR Di MALAYSIA JULAI-DIS 2011                   | 75-76   |
| SEMINAR MINGGUAN Di INSPeM, UPM JULAI-DIS 2011       | 76-77   |
| SIRI KOLOKUIUM Di ISM, UM JULAI-DIS 2011             | 77      |
| LAPORAN SEMINAR DSBNYA Di MALAYSIA (JULAI-DIS 2011)  | 77-78   |
| SEMINAR DSBNYA KELAK:                                |         |
| DALAM & LUAR NEGARA 2012-13                          | 79-96   |
| BERITA SISWA & SISWAZAH :                            |         |
| TAMAT SHOROF DNG NAHU, MANTIK DNG MAKNA,             |         |
| TAHU HAKIKAT DNG MAKRI FAT                           | 97      |
| ANUGERAH (HADIAH NOBEL, PINGAT FIELD DAN SEBAGAINYA) | 97-100  |
| PULANGNYA SARJANA KE ALAM BAQA (<Dis 2011)           | 100-105 |
| BUKU-BUKU PILIHAN BARU                               |         |
| (LARIS JUALAN JULAI-DIS 2011; PELB SN MATEMA 2008 )  | 106-125 |
| KE ARAH MEMPERTAUTKAN KIAMBANG                       | 126-131 |
| PENGELASAN SAINS MATEMATIK PERSAMA 2000              |         |
| PENGELASAN SAINS MATEMATIK MASTIC 2003               |         |
| BORANG PEMBAHARUAN KEAHLIAN PERSAMA                  |         |
| BORANG MENJADI AHLI PERSAMA                          |         |
| %%%%%%%%%                                            |         |

## BARISAN PIMPINAN PERSAMA 2011/12 – 2012/13

### PERSATUAN SAINS MATEMATIK MALAYSIA

|                              |                       |                                                                                     |  |
|------------------------------|-----------------------|-------------------------------------------------------------------------------------|--|
| Presiden                     | Mohd Salmi Md Noorani |    |  |
| Naib Presiden                | Nor Haniza Sarmin     |    |  |
| Naib Presiden                | Arsmah Ibrahim        |    |  |
| Setiausaha Kehormat          | Maslina Darus         |   |  |
| Penolong Setiausaha Kehormat | Norihan Arifin        |  |  |
| Bendahari Kehormat           | Saiful Hafizah Jaaman |  |  |
| Ahli Jawatankuasa            | Hj. Mustafa Mamat     |  |  |
|                              | Suzeini Abdul Halim   |  |  |

[illegible]

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Chan Lu Yi 97072586XXXX SMJK Perempuan China Pulau Pinang

Chen Ai Yin 98011056XXXX SMJK Katholik PJ

Chen Sharon 97051414XXXX SMK Aminuddin Baki

Cheng Yi Chen 97012210XXXX Sekolah Menengah Hin Hua

Chiam Han Chang 97030810XXXX Sekolah Menengah Hin Hua

Chin Yuan Zhen 97072856XXXX SMK Aminuddin Baki

Chin Zhan Xuan, Darren 97090901XXXX SM Foon Yew, Johor Bahru

Choong Mun Kit 97070138XXXX SMK Poi Lam Ipoh  
 Chua Cherq 97111001XXXX SM Foon Yew, Johor Bahru  
 Goh Dean Jett 970105075605 SMJK Chung Ling  
 Goh Guang Zu, Julius 97071607XXXX SMK Sultan Badlishah  
 Khairunnisa Binti Khir Kamalian 97050602XXXX SM Imtiaz Besut  
 Koh Hui Soon 97022401XXXX SM Foon Yew, Kulai  
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 Low Kok Yong, David 97102104XXXX SMK St. Francis  
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 Muhammad Afiq Bin Ramli 97031538XXXX Sek Men Sains Teluk Intan  
 Muhammad Amal Firdaus Bin Ramli 97103143XXXX SMK Bandar Baru Bangi  
 Muhammad Amirul Bin Mohd Rodzi 97040535XXXX MRSM PDRM  
 Muhammad Fahmi Bin Abdullah 97011911XXXX SMK Ibrahim Fikri  
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##### **TEMPAT KEDUA**

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##### **TEMPAT KETIGA**

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##### **TEMPAT PERTAMA**

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##### **SIJIL SANJUNGAN KEHORMAT**

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 Yun Yi Chin 95012601XXXX SM Foon Yew, Johor Bahru  
 Wan Hashedah Binti Wan Haron 95021211XXXX SMK Chukai  
 Wan Md Fathi Bin Wan Md Jalal Azmi 95061914XXXX SM Imtiaz Besut  
 Wang Ye Sum 95032408XXXX SMK Poi Lam Ipoh  
 Wong Chin Fong 95060102XXXX SMJK Keat Hwa  
 Wong Sze Phing 95090506XXXX SMK Bandar Utama Damansara 4  
 Wong Yun Qiu 95121014XXXX SMK Aminuddin Baki  
 Yeo Gin Anne 95062314XXXX SMK Mahmud Raub  
 Yeo Jui Yuan, Justin 95020813XXXX Lodge Secondary School  
 Yew Jia Hao 95072601XXXX SM Foon Yew, Johor Bahru  
 Yong Hong Cheng Bryan 96053056XXXX Sekolah Methodist Wesley

Zoe Lum Yin Yi 95092706XXXX SMK Alor Akar

\*\*\*\*\*

#### **KATEGORI BERPASUKAN / BERKUMPULAN (MUDA)**

##### **TEMPAT PERTAMA**

SMK USJ 12: Lim Wei Xian 95010510XXXX; Ong Eik Ren 95072310XXXX  
How Si Wei 95091910XXXX; How Si Yu 95091910XXXX

##### **TEMPAT KEDUA**

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Loke Wen Liang, James 95060901XXXX; Nguwi Jiang Yu 95100201XXXX

##### **TEMPAT KETIGA**

SMJK Katholik PJ : H'ng Eng Ngee 95122810XXXX; Kee Xue Shi 95071310XXXX  
Ong Shin Yin 95071810XXXX; Ong Zhong Fei 95031410XXXX

\*\*\*\*\*

#### **KATEGORI INDIVIDU / PERSEORANGAN (SULONG)**

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##### **TEMPAT KEDUA**

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Ng Joey 93062110XXXX Taylors College Subang Jaya  
Yeoh Kai Yuan 94111014XXXX Sekolah Methodist Wesley

##### **SIJIL SANJUNGAN KEHORMAT**

Ahmad Asyraf Bin Azilah 94032911XXXX SM Sains Sultan Mahmud  
Ahmad Faez Bin Azmi 94111911XXXX SMK Tengku Mahmud  
Andy Herg 93050704XXXX Help Academy  
Ang Choon Hoh, Ryan 93030214XXXX Chong Hwa Independent High School  
Bina Izzatu Dini 3732DXXXX SM Islam Hidayah  
Chan Jun Wei 94081810XXXX Sekolah Menengah Hin Hua  
Chan Pei Ying 93073012XXXX Sabah Tshung Tsin Secondary School  
Chen Tian Chuin 93123004XXXX Sekolah Menengah Pay Fong  
Chern Li-Ern 93042710XXXX Sekolah Menengah Hin Hua  
Chin Jian Ji 92053107XXXX SMJK Jit Sin  
Choo Dan Wei 93112401XXXX SM Foon Yew, Kulai  
Chuah Yong Heng 92050207XXXX SMJK Chung Ling  
Dzul Afieq Bin Zulkifli 94022802XXXX Kolej Yayasan Saad  
Foo Ming Jeat 93082114XXXX Chong Hwa Independent High School  
Fow Jun Ee 92061007XXXX SMJK Chung Ling

Himmat Singh A/I Satwant Singh 93103014XXXX KDU University College  
 Ho Song Guang 92092514XXXX SMJK Yu Hua  
 Intan Mariam Binti Che Hazamuddin 94051311XXXX SM Sains Sultan Mahmud  
 Jee Ming Sean 92042802XXXX SMJK Sin Min  
 Khoo Jun Kit 92042110XXXX INTEC UiTM  
 Khoo Yih Perng 92031114XXXX Taylors College Subang Jaya  
 Lam Yet Sin 93082208XXXX SMJK Sam Tet  
 Lee Pin Hong, Daniel 92101707XXXX SMJK Chung Ling  
 Lee Shen Yung 93122801XXXX SM Foon Yew, Johor Bahru  
 Ler Ann Joe 92122001XXXX SMJK Seg Hwa  
 Lieow Wei Xiang 94042014XXXX Chong Hwa Independent High School  
 Lim Hong Beng 94070903XXXX SMK Hamzah  
 Lim Yong Quan 92082501XXXX SMK Tinggi Kluang  
 Lim Zhan Hong 94091912XXXX SMK Bandar Utama Damansara 4  
 Lim Zhi Yung 93021501XXXX SM Foon Yew, Johor Bahru  
 Lim Zun Yuan 94020414XXXX SMK Bandar Utama Damansara 4  
 Loo Mun Hong 93041214XXXX Help Academy  
 Low Jian Hui 93040110XXXX Taylors College Subang Jaya  
 Low Ren Jie, Ronnie 93111701XXXX SM Foon Yew, Kulai  
 Lyster Edviano Loo 94040502XXXX SMJK Sin Min  
 Mohammad Faharol Bin Che Mat Ghani 94071211XXXX MRSB Besut  
 Muhammad Arif Bin Anuar 94061911XXXX SMK Agama Kuala Abang  
 Muhammad Hafiz Bin Azmi 94101211XXXX SM Sains Sultan Mahmud  
 Muhammad Syahiran Bin R Zahari 94101511XXXX SMK Sultan Ismail  
 Ng Fei Chong 92101407XXXX SMJK Chung Ling  
 Ng Jia Geng 93040810XXXX Sekolah Menengah Hin Hua  
 Ng Kheng Ghee 92071103XXXX SMJK Chung Hwa  
 Ng Wei Siang 92111408XXXX Kolej Teknologi Timur  
 Nur Annisa Nasuha Binti Jeffry 94110911XXXX SM Sains Sultan Mahmud  
 Nurul Ain Nadhirah Binti Mohd Yasin 94032011XXXX SM Sains Kuala Terengganu  
 Nurul Asyikin Binti Mohd Jafriiddin 94123007XXXX SMK Sultan Ismail  
 Ong Kah Veng 92020810XXXX SMK Tinggi Bukit Mertajam  
 Phoong Jin Zhi 94051212XXXX Sabah Tshung Tsin Secondary School  
 Phung Cheng Shyong 94031814XXXX SMJK Katholik PJ  
 Pong Sheng Kai 93080801XXXX SM Foon Yew, Johor Bahru  
 Shobha Ashwinie A/p Subarau 94082310XXXX SMK Perimbun  
 Siew Kae Yee 93101401XXXX SM Foon Yew, Johor Bahru  
 Sim Mou Yee 94070313XXXX SM Chung Hua No.1  
 Tai Chia Ye 94042114XXXX Chong Hwa Independent High School  
 Tan Bee Suan 93101501XXXX SM Foon Yew, Johor Bahru  
 Tan Chee Soon 94112107XXXX SMJK Chung Hwa Confucian  
 Tan Phei Chieh 92070907XXXX SMJK Chung Ling  
 Tan Weijie 94010601XXXX SMK Sultan Ismail  
 Tan Yong Chin 92062208XXXX SMJK Sam Tet  
 Teng Ern Yung, Joshua 92042901XXXX Taylors College Subang Jaya  
 Teo Joann 93042314XXXX Sekolah Menengah Hin Hua  
 Teo Wei Xin 94070901XXXX SM Foon Yew, Kulai  
 Tung Keng Fai 92031308XXXX SMK St Michael Ipoh  
 Wan Mohd Syahir Wan Abdillah 94022011XXXX SM Sains Sultan Mahmud  
 Wong Vui Chean, Raymond 93010712XXXX Sabah Tshung Tsin Secondary School  
 Yap Xiao Han 93092113XXXX SM Chung Hua No.1  
 Yew Hong Zhi 93041604XXXX Sekolah Menengah Pay Fong  
 Yong Chong Guan 94073014XXXX Chong Hwa Independent High School  
 Yong Fong Chuan 93052501XXXX SM Foon Yew, Johor Bahru  
 Yu Ming Ru 94100904XXXX Sekolah Menengah Pay Fong

\*\*\*\*\*

### KATEGORI BERPASUKAN / BERKUMPULAN (SULONG)

**PERTAMA** Kuala Lumpur Chong Hwa Independent High School

**KEDUA** Kedah SMJK Keat Hwa

**KETIGA** Selangor Sekolah Menengah Hin Hua

#### TEMPAT PERTAMA

Chong Hwa Independent High School

Chong Yen Yee 94010214XXXX

Joy Ang Xin Yi 94030910XXXX

Liew Ziqing 94052014XXXX

Tey Shiwei 94021814XXXX

#### TEMPAT KEDUA

SMJK Keat Hwa

Calvin Chang Tat Chee 92072402XXXX

Lim Xiang Pei 94031302XXXX

Tan Hong Way 94051602XXXX

Yeoh Ji Xun 94061402XXXX

#### TEMPAT KETIGA

Sekolah Menengah Hin Hua

Cheong Wee Jie 94102410XXXX

Lim Chin Guan 94121910XXXX

Tee Xun Chun 94030101XXXX

Wong Guan Yang 94021314XXXX

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## Olimpiad Matematik Antarabangsa (OMA)/International Mathematical Olimpiad ke-52 (IMO2011)



Pertandingan kali ini diadakan di Belanda. Soalan disediakan dalam bahasa-bahasa yang diingini oleh negara peserta. Negara-negara yang berbuat demikian ialah setiap negara dari Eropah, Timur Tengah, Timur, Asia Tenggara kecuali Filipina dan Singapura (kedua-duanya menggunakan bahasa Inggeris), dan juga Afrika Selatan (walaupun bahasa rasmi utamanya Inggeris). Ini menjadikan jumlah bahasa yang digunakan ialah 49 buah bahasa daripada 101 buah peserta semuanya.

Berikut soalan itu dalam bahasa Melayu Malaysia:

Masalah 1. Diberi sebarang set  $A = \{a_1, a_2, a_3, a_4\}$  yang terdiri daripada empat integer positif berlainan. Namakan hasil tambah  $a_1 + a_2 + a_3 + a_4$  sebagai  $S_A$ . Andaikan  $n_A$  mewakili bilangan pasangan  $(i, j)$  dengan  $1 \leq i < j \leq 4$

supaya  $a_i + a_j$  membahagi  $s_A$ . Cari semua set  $A$  yang terdiri daripada empat integer positif berlainan supaya nilai  $n_A$  adalah sebesar mungkin.

Masalah 2. Andaikan  $S$  suatu set terhingga yang terdiri daripada sekurang-kurangnya dua titik pada suatu satah. Andaikan tiada tiga titik dalam  $S$  yang segaris. Suatu kincir ialah suatu proses yang bermula dengan suatu garis  $l$  yang melalui satu titik  $P \in S$ . Garis ini berputar mengikut arah jam menggunakan  $P$  sebagai sendi sehingga garis ini melalui satu titik lain dalam  $S$ . Titik ini, yang dinamakan  $Q$ , mengambil alih peranan sebagai sendi yang baru, dan garis ini terus berputar mengikut arah jam bersendikan  $Q$  sehingga ia melalui titik seterusnya dalam  $S$ . Proses ini berterusan tanpa henti.

Buktikan bahawa suatu titik  $P$  dalam  $S$  dan suatu garis  $l$  yang melalui  $P$  boleh dipilih supaya kincir yang terhasil akan menggunakan setiap titik dalam  $S$  sebagai sendi tak terhingga kali banyaknya.

Masalah 3. Andaikan  $f : \mathbb{R} \rightarrow \mathbb{R}$  suatu fungsi nyata yang tertakrif pada set nombor nyata yang memenuhi

$$f(x + y) \leq yf(x) + f(f(x))$$

untuk semua nombor nyata  $x$  dan  $y$ . Buktikan bahawa  $f(x) = 0$  untuk semua  $x \leq 0$ .

Berikut soalan itu dalam bahasa Melayu Indonesia:

Soal 1. Diberikan sebarang himpunan  $A = \{a_1, a_2, a_3, a_4\}$  dari empat bilangan bulat positif berbeda, jumlah  $a_1 + a_2 + a_3 + a_4$  didefinisikan dengan  $s_A$ . Misalkan  $n_A$  menyatakan banyaknya pasangan  $(i, j)$  dengan  $1 \leq i < j \leq 4$  sehingga  $a_i + a_j$  membagi  $s_A$ . Cari semua himpunan  $A$  dari empat bilangan bulat positif berbeda yang merealisasikan nilai  $n_A$  terbesar yang mungkin.

Soal 2. Misalkan  $S$  adalah suatu himpunan hingga dari paling sedikit dua titik pada bidang tertentu. Asumsikan bahwa tidak ada tiga titik dari  $S$  yang segaris. Suatu pusaran adalah suatu proses yang dimulai dengan suatu garis  $l$  melalui suatu titik tunggal  $P \in S$ . Garis itu berputar searah putaran jarum jam dengan pusat  $P$  sampai waktu pertama garis itu bertemu suatu titik lain anggota  $S$ . Titik ini,  $Q$ , mengambil alih sebagai pusat baru, dan garis itu sekarang berputar searah putaran jarum jam dengan pusat  $Q$ , sampai garis itu bertemu suatu titik berikutnya dari  $S$ . Proses ini berlanjut secara terus menerus.

Buktikan bahwa kita dapat memilih suatu titik  $P$  di  $S$  dan suatu garis  $l$  melalui  $P$  sehingga pusaran yang dihasilkan menggunakan masing-masing titik dari  $S$  sebagai pusat tak hingga banyak kali.

Soal 3. Misalkan  $f : \mathbb{R} \rightarrow \mathbb{R}$  adalah suatu fungsi bernilai real terdefinisi pada himpunan bilangan real memenuhi

$$f(x + y) \leq yf(x) + f(f(x))$$

untuk semua bilangan real  $x$  dan  $y$ . Buktikan bahwa  $f(x) = 0$  untuk semua  $x \leq 0$ .

Keputusan pertandingan seperti berikut:

10 Negara di Atas :

1) Republik Rakyat China; 2) AS; 3) Singapura; 4) Rusia; 5) Thailand; 6) Turki; 7) Korea Selatan; 8) Romania; 9) Taiwan; 10) Iran

Indonesia 114 mata mendapat asana ke-29; Vietnam 113 mata mendapat asana ke-31; **Malaysia=Afrika Selatan 93** mata mendapat asana ke-41; Filipina mendapat asana ke-54

Asana negara-negara Timur Tengah: Iran 10; Israel 23; Maghribi 62; Siprus 71; Tunisia 77; Nigeria 78; Syria 93; Kuwait=Ameriah Arab Bersatu 100 (tempat terakhir)

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## BULAT AIR KERANA PEMBETUNG.....

### Statistik ahli PERSAMA Mei 2011

Felo : 9 org  
 Ahli Seumur Hidup: 448 org  
 Ahli Biasa : 450 org  
 Ahli Institusi : 370 buah  
 Ahli Pelajar: 73 org

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### Minit Mesyuarat Agung ini diluluskan dalam Mesyuarat Agung 2011



PERSATUAN SAINS MATEMATIK MALAYSIA  
 D/a Pusat Pengajian Sains dan Matematik,  
 Fakulti Sains dan Teknologi,  
 Universiti Kebangsaan Malaysia,  
 UKM Bangi 43600 , Selangor Darul Ehsan,  
 Malaysia.  
[www.persama.org.my/](http://www.persama.org.my/)  
 Tel: 603-89215713, Fax:603-89254519

### MINIT MESYUARAT AGUNG 2009/2010 PERSATUAN SAINS MATEMATIK MALAYSIA

Tarikh: 8 Disember 2010  
 Masa: 5 petang  
 Tempat: Auditorium, the Zon Hotel, Johor Baharu

#### Yang hadir:

|                                                                              |                                                                                 |                                                                                               |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| Adem Kilicman                                                                | Arsmah Ibrahim                                                                  | Abd Aziz Samson                                                                               |
| Ali Hassan Mohamed Murid                                                     | Abd Rahni Mat Piah                                                              | Anuar Mohd Ishak                                                                              |
| Fadila Normahia Abd Manaf                                                    | Gafurjan Ibragimov                                                              | Husna Hasan                                                                                   |
| Jamaluddin Md. Ali                                                           | Khairul Anwar Rasmani                                                           | Liong Choong Yeun                                                                             |
| Maslina Darus<br>Mustafa Mamat<br>Noor Akma Ibrahim<br>Saiful Hafizah Jaaman | Mohd Salmi Md Noorani<br>Nor Aishah Jasli<br>Rashidah Omar<br>Suhaila Abd Halim | Mohammad Khatim Hasan<br>Nur Jumaadzan Zaleha Mamat<br>Suzeini Abd Halim<br>Siti Hasana Sapor |

Presiden memulakan mesyuarat dengan bacaan Al-fatihah.

## I. Mengesahkan Minit Mesyuarat Agung PERSAMA 2008/09

Minit Mesyuarat ini disahkan tanpa sebarang pindaan.

(Pencadang: Mustafa Mamat    Penyokong: Adem Kilicman)

## II. Perkara-perkara berbangkit :

Tiada perkara berbangkit yang diketengahkan.

## III. Laporan Tahunan

Presiden Persatuan Sains Matematik Malaysia, mewakili Presiden telah membentangkan laporan tahunan Persatuan bagi penggal 2009/10 dan laporan ini telah diterima dengan beberapa perkara berbangkit diperbincangkan.

### i. Aktiviti yang telah dijalankan dan yang tertangguh untuk sesi tahun 2009/10

- Seminar/bengkel sehari berasaskan statistik-(bengkel pendedahan matematik akan terus dijalankan selagi ada penceramahnyanya.
- Anugerah tahunan PERSAMA diadakan bersama dengan SKSM-ke17, UPM berjalan dengan baik
- Olimpiad Matematik Antarabangsa (IMO) 2009 tidak menghantar pasukan atas sebab kesihatan dunia pada ketika itu (H1N1).
- Siri latihan IMO 2009 telah berjaya dijalankan dari bulan Januari-April 2009 (4 siri).
- Olimpiad Matematik Kebangsaan 2009 (OMK09) telah diadakan pada 20 Jun 2009.
- Kem Matematik: telah menerima kesediaan IPTA untuk mengadakan kem
- Kumpulan-e PERSAMA dalam proses perlaksanaan.
- memperkemaskan butiran siapa sianu dam masih belum siap
- Mewujudkan pengkalan *karya sains matematik* yang telah diterbitkan, keutamaan dalam Bahasa Melayu, terdapat buku-buku yang telah dipamirkan dalam laman sesawang
- Nota kuliah IMO akan diusahakan bersama AMS
- Aktiviti perantarabangsa: persidangan bersama universiti dari Turki tahun 2010, tahun 2011, lawatan akademi ke Uzbekistan untuk menjalin jaringan bersama persatuan matematik Uzbekistan dan Institut sains di sana.

### ii. Penerbitan PERSAMA

#### a) *Bulletin of The Malaysian Mathematical Science Society:*

Pengeluaran buletin berjalan dengan lancar dan buletin telah berindeks dalam ISI Thomson (SCI). Tahniah kepada Ketua Editor: Dato' Rosihan M. Ali dan pasukan Buletin.

#### b) *Menemui Matematik:* Penerbitan tahun 2008 & 2009, masih ketandusan kertas kerja dan akan diusahakan oleh Prof Adem Kilicman untuk pengeluaran akan datang.

#### c) *Warkah Berita PERSAMA:* Penerbitan tahun 2008 & 2009 telah dimuatkan dalam laman sesawang.

### iii. Olimpiad Matematik Antarabangsa ( IMO)

Kementerian memohon PERSAMA untuk melatih pasukan IMO. Sesi akan datang dalam bulan disember 2010.

### iv. Olimpaid Matematik Kebangsaan (OMK)

Penyelarasan OMK telah diambilalih oleh pengurusan UTM bermula tahun 2009.

#### **v Anugerah Tahunan PERSAMA**

Anugerah Tahunan PERSAMA 2009/10 telah diadakan semasa Majlis Perasmian Simposium Kebangsaan Sains Matematik ke-17 pada Makan Malam yang diadakan pada 15 Disember 2009 di Hotel Mahkota, Melaka. Penerima anugerah telah diberi wang tunai dan sijil penghargaan

#### **vi Sumbangan PERSAMA**

Hari Matematik 2009 UiTM: RM1,000  
 Aktiviti pelajar UTM 2009: RM2,000  
 Simposium Antarabangsa ICQPPM 2009, November 2009: RM2,000  
 AMC2009: RM10,000  
 SKSM ke-17, 15-17 Dis 2009, UPM: RM5,000

(Pencadang: Saiful Hafizah Jaaman      Penyokong: Siti Hasana Sapar)

#### **IV. Laporan Bendahari**

Saiful Hafizah Jaaman selaku bendahari kehormat PERSAMA telah membentangkan Laporan Bendahari dan secara keseluruhan juruaudit berpuas hati dengan laporan tersebut.

(Pencadang: Roslinda Mohd Nazar.      Penyokong: Jamaluddin Md Ali).

#### **V. Hal-hal lain**

Mesyuarat bersetuju dengan cadangan yang disuARAKAN SEPERTI BERIKUT:

- Menganjurkan mesyuarat Felo PERSAMA untuk mendapatkan idea dari Felo-felo PERSAMA
- Perubahan yuran penyertaan OMK iaitu untuk bukan ahli RM80 ke RM100, ahli RM24 ke RM32 atas sebab harga pos telah meningkat.
- Pembukaan akaun baru CIMB Islamic SEMASA untuk memudahkan urusan penyelarasan Olimpiad Matematik Kebangsaan (OMK). Pemegang kaun yang dilantik ialah Prof. Madya Dr. Nor zhaniza Sarmin (Naib Presiden PERSAMA) dan Dr Nor Muhainiah Mohd Ali (Penyelaras OMK)

Mesyuarat disudahi dengan bacaan surah al-‘Asr dan bersurai jam 6.00 petang.

Prof. Dr. Mohd Salmi Md. Noorani  
 Presiden  
 Persatuan Sains Matematik Malaysia

Prof. Dr. Maslina Darus  
 Setiausaha Kehormat  
 Persatuan Sains

@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@@

**Laporan ini diluluskan dalam Mesyuarat Agung PERSAMA 2011**

## LAPORAN TAHUNAN PERSATUAN SAINS MATEMATIK MALAYSIA (PERSAMA) 1 Jun 2010-31 Mei 2011

### 1. Barisan Ahli Majlis PERSAMA

Berdasarkan kepada keputusan Mesyuarat Agung PERSAMA pada 15 Disember 2009 bertempat di Mahkota Ballroom, Hotel Mahkota, Melaka, jam 12.30 petang dan dihadiri oleh 71 orang, maka barisan ahli-ahli majlis untuk penggal 2009/10-2010/11 adalah seperti berikut:

|                               |                       |
|-------------------------------|-----------------------|
| Presiden:                     | Mohd Salmi Md Noorani |
| Naib Presiden:                | Arsmah Ibrahim        |
|                               | Nor Haniza Sarmin     |
| Setiausaha Kehormat:          | Maslina Darus         |
| Penolong Setiausaha Kehormat: | Norihan Md. Arifin    |
| Bendahari Kehormat:           | Saiful Hafizah Jaaman |
| Ahli Jawantankuasa:           | Hj Mustafa Mamat      |
|                               | Suzeini Abdul Halim   |
|                               | Adem Kilicman         |
|                               | Husna Hasan           |

Perlantikan ahli majlis baru akan diadakan pada mesyuarat agung 2010/11

### 2. Keahlian

| Tahun             | 2007/08 | 2008/09 | 2009/10 | 2010/11 |
|-------------------|---------|---------|---------|---------|
| Ahli seumur hidup | 323     | 348     | 414     | 448     |
| Ahli biasa        | 340     | 371     | 415     | 450     |
| Ahli pelajar      | 8       | 21      | 45      | 73      |
| Ahli institusi    | 432     | 400     | 400     | 370     |
| Felo              | 7       | 7       | 8       | 9       |

Perangkaan yang diberi di atas telah diperkemas dengan lebih jelas secara beransur-ansur. Ahli Institusi sama (yang mana automatik menjadi ahli Institusi jika membayar yuran seperti yang disarankan untuk memasuki OMK). Bilangan Ahli Biasa menunjuk peningkatan seramai 35 orang. Ahli seumur hidup juga meningkat seramai 34 orang. Manakala ahli pelajar meningkat seramai 28 orang. Bilangan ahli Felo bertambah seorang lagi kepada 9 orang. Bagi tahun 2007 Felo Persama telah dianugerahkan kepada Prof. Dato' Mohd Kamel Ariffin sementara bagi tahun 2008 pula Felo Persama telah dianugerahkan kepada Prof. Dato' Rosihan Md. Ali. Tahun 2009, dianugerahkan kepada Prof Dato' Dr Abdul Razak Salleh. Untuk tahun 2010 dianugerahkan kepada Prof Dr Bachok Taib.

Seperti biasa, sijil keahlian seumur hidup akan diedarkan secara beransur-ansur, manakala untuk ahli biasa sijil akan diberi apabila diminta.

### 3. Mesyuarat Majlis PERSAMA

Sejak Mesyuarat Agung yang lepas iaitu 8 Disember 2010, terdapat 2 mesyuarat majlis yang diadakan. Walaupun setiap kali tertangguh mesyuarat agung, keputusan mesyuarat sentiasa mengambilkira aktiviti mengikut penggal iaitu dari Jun 2010 hingga 31 Mei 2011. Antara aktiviti yang sering dibincangkan adalah:  
Mensasarkan aktiviti berikut untuk sesi tahun 2010/11.

- Seminar/bengkel sehari berasaskan statistik-yang ke-5 masih belum terlaksana.
- Anugerah tahunan PERSAMA(akan diadakan bersama dengan SKSM-ke19, UiTM, Pulau Pinang)

- c) Olimpiad Matematik Kebangsaan 2010 (OMK10) telah diadakan pada 26 Jun 2010.
- d) Kem Matematik (telah dianjurkan bersama Petrosains, UTM-JB, bersama Exxonmobil belum terlaksana)
- e) Kumpulan-e PERSAMA telah dilaksanakan cuma perlu dikemaskini (terdapat ahli yang tiada mel-e) .
- f) Memperkemaskan butiran siapa sianu dan akan diusahakan
- g) Aktiviti sempena lawatan Prof. Frank Morgan dari AMS pada 8-14 Mei 2011 bagi mempopularkan matematik berjaya dilaksanakan.
- h) Lawatan dan kerjasama dengan universiti di Turki dan Uzbekistan pada November 2010 (Turki) dan Jun 2011 (Uzbekistan).

#### 4.Penerbitan PERSAMA

- d) **Bulletin of The Malaysian Mathematical Sciences Society:**  
Pengeluaran buletin berjalan dengan lancar dan buletin telah berindeks dalam ISI Thomson (SCI) dan berada dalam *Quartile 2*. Tahniah kepada Ketua Editor: Dato' Prof Rosihan M.Ali dan Pasukan Buletin.
- e) **Menemui Matematik:** Penerbitan tahun 2010 telah ada bahan dan dalam proses pengeditan. Untuk tahun 2011 akan diusahakan. Tahniah kepada Pasukan Menemui Matematik.
- f) **Warkah Berita PERSAMA:** Penerbitan tahun 2010, masih mengumpul bahan.

#### 5.Olimpiad Matematik Antarabangsa ( IMO)

Tahun 2010, pasukan IMO Malaysia telah menghantar pasukan seramai 6 orang pelajar dan 2 orang ahli PERSAMA. Butiran IMO 2010 adalah seperti berikut:

IMO 2010 di Kazakhstan: 1-4 Julai 2010

Ketua: En Suhaimi M Ramly

Penolong Ketua: En Muhammad Ikhwan Azlan

Pencapaian IMO2010: 1 Perak, 1 Gangsa, 3 Sanjungan Kehormat

Postmortem IMO 2010: 18 Julai 2010

**PERSAMA** telah menganjurkan bengkel latihan untuk International Mathematical Olympiad (IMO) 2010 secara bersiri bertempat di Shah Alam yang bermula sejak Disember 2009.

BIMO 2010 Ke-1 :18-22 Dis 2009

BIMO 2010 Ke-2 : 22-25 Jan 2010

BIMO 2010 Ke-3 : 5-9 Mac 2010

BIMO 2010 Ke-4 : 30 Apr-2 Mei 2010

BIMO 2010 Ke-5 : 22-23 Mei 2010

BIMO 2010 Ke-6 : 29 Mei 2010

BIMO 2010 Ke-7 :5-6 Jun 2010

BIMO 2010 Ke-8 :12 Jun 2010

BIMO 2010 Ke-9 :19-20 Jun 2010

Sesi Mindset : 26 Jun-4 Julai 2010

\*BIMO=Bengkel IMO

#### 6.Olimpiad Matematik Kebangsaan (OMK)

Pada tahun 2010, pertandingan Olimpiad Matematik Kebangsaan telah diadakan pada 26 Jun 2010. Keputusan untuk tahun 2010 telah diumumkan dan senarai pemenang utama untuk OMK 2010 yang terkini adalah seperti berikut (maklumat lengkap boleh dilihat di laman web PERSAMA (<http://persama.org.my/>):

**KEPUTUSAN OMK 2010 (BONGSU)**

**KATEGORI INDIVIDU / PERSEORANGAN (BONGSU)**

**tempat pertama**

Lim Zi Yong 960102015413 SMK Taman Universiti, Johor

**tempat kedua**

Laura Lim Huey Mien 960410015722 SMK Sultan Ismail, Johor

**tempat ketiga**

Yong Heng Cheng Bryan 960530565323 Sekolah Methodist Wesley, KL

**KEPUTUSAN OMK 2010 (MUDA)**

**KATEGORI INDIVIDU / PERSEORANGAN (MUDA)**

**tempat pertama**

Tham Ying Hong 940922105571 SMJK Katholik PJ, Selangor

**tempat kedua**

Yeoh Zi Ming 940303075123 SMJK Chung Hwa Confucian, Pulau Pinang

**tempat ketiga**

Kelvin Koor Kai Jie 950127075667 SMJK Chung Ling, Pulau Pinang

**KEPUTUSAN OMK 2010 (SULONG)**

**KATEGORI INDIVIDU / PERSEORANGAN (SULONG)**

**tempat pertama**

Lam Yet Sin 930822086001 SMK Sam Tet, Perak

**tempat kedua**

Teh Jiasheng 920108016883 Chinese High School, Batupahat, Johor

**tempat ketiga**

Raymond Wong Vui Chean 930107125403 Sabah Tshung Tsin Secondary School, Sabah

**7.Penerimaan & Penghantaran Jurnal Secara Pertukaran**

Seperti sebelumnya, penerimaan & penghantaran Buletin diuruskan oleh USM di bawah penyelarasan Prof Dato' Rosihan Md Ali. Manakala bagi makalah Menemui Matematik pula akan diuruskan oleh UPM di bawah penyelarasan Prof Dr. Adem Kilicman.

**8.Anugerah Tahunan PERSAMA**

Anugerah Tahunan PERSAMA 2010 telah diadakan semasa Majlis Perasmian Simposium Kebangsaan Sains Matematik ke-18 pada Malam Anugerah Persama yang diadakan pada 8 Disember 2010 di Hotel the Zon, Johor Bahru. Penerima anugerah telah diberi wang tunai dan sijil penghargaan. Antara kategori yang dipertimbangkan dan jawatankuasa yang bertanggungjawab adalah seperti berikut:

| <b>BI<br/>L</b> | <b>JENIS<br/>ANUGERAH</b>      | <b>AJK PENILAIAN</b>                                                                                                                                                                                                                                    |
|-----------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1               | Anugerah Buku Karya Asli       | Prof Madya Dr Nor Haniza Sarmin<br>Jabatan Matematik, Fakulti Sains<br>Universiti Teknologi Malaysia<br>81310 UTM Skudai, Johor<br>Mel-e : <a href="mailto:nhs@fs.utm.my">nhs@fs.utm.my</a><br>Tel : 07-5534266/34867, 017-7557660<br>Faks : 07-5566162 |
| 2               | Anugerah Buku Terjemahan       |                                                                                                                                                                                                                                                         |
| 3               | Anugerah Tesis Doktor Falsafah | Prof Dr Suzeini Abd Halim<br>Institut Sains Matematik                                                                                                                                                                                                   |

|   |                          |                                                                                                                                                                                                                                                                                                          |
|---|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | Anugerah Makalah Ilmiah  | Universiti Malaya<br>Kuala Lumpur<br><a href="mailto:suzeini@um.edu.my">suzeini@um.edu.my</a>                                                                                                                                                                                                            |
| 5 | Anugerah Tesis Sarjana   | Dr Norihan bt Md. Arifin<br><a href="#">Department of Mathematics</a><br>Faculty of Science<br><a href="#">Universiti Putra Malaysia</a><br>43400 UPM Serdang<br><a href="#">Selangor Darul Ehsan</a><br>Email: <a href="mailto:norihan@fsas.upm.edu.my">norihan@fsas.upm.edu.my</a><br>Tel: 03-89466850 |
| 6 | Anugerah Rekapipta       | Prof. Madya Dr. Arsmah Hj. Ibrahim,<br>Fakulti Teknologi Maklumat & Sains<br>Kuantitatif,<br>UiTM Shah Alam,<br>40450 Shah Alam Selangor<br>Mel-e : <a href="mailto:arsmah@tmsk.uitm.edu.my">arsmah@tmsk.uitm.edu.my</a><br>Tel : 03-55435357, 012-2107620                                               |
| 7 | Anugerah Rencana Popular | Prof Dr Mohd Salmi Md Noorani<br>Pusat Pengajian Sains Matematik<br>Fakulti Sains Teknologi<br>Universiti Kebangsaan Malaysia<br>43600 UKM Bangi, Selangor<br>Mel-e : <a href="mailto:msn@ukm.my">msn@ukm.my</a><br>Tel : 03-89215712<br>Faks : 03-89254519                                              |

Senarai pemenang bagi Anugerah PERSAMA 2010 boleh dilihat di laman web PERSAMA(<http://persama.org.my/>).

## 9. Bengkel, Seminar dan Sebagainya

***Sumbangan PERSAMA: Pembayaran dibuat pada 1 Jun 2010-31 Mei 2011.***

| Tarikh     | Jumlah (RM) |                                       |
|------------|-------------|---------------------------------------|
| 23/7/2010  | 1000        | 5th National Maths Competition (UTAR) |
| 06/10/2010 | 1000        | Bengkel Cryptology                    |
| 18/10/2010 | 2500        | Etno Matematik                        |
| 23/7/2010  | 1500        | UKM-UNRI 2010                         |
| 06/10/2010 | 2000        | IMT-GT2010 (UTAR)                     |
| 18/11/2010 | 5000        | SKSM-18 (UTHM)                        |
| 25/1/2011  | 1500        | FSC 2011                              |
| 13/1/2011  | 2000        | ICMCB 2011                            |
| 20/5/2011  | 5000        | Kegemmatam 2011_UMT                   |
| 14/4/2011  | 20000       | Kem Matematik Negeri Johor 2011       |
| 14/4/2011  | 1000        | bengkel di Filipina                   |
| 02/11/2011 | 1500        | NCGS 2011                             |
| 20/5/2011  | 3000        | Seminar Sains & Matematik_USIM        |
| 15/3/2011  | 5000        | SKSM-19 (UiTM P. Pinang)              |



**PENYATA KEWANGAN TAHUNAN PERSAMA  
1 JUN 2009 HINGGA 31 MEI 2010 (diluluskan Dis 2010)  
BELUM TERIMA**

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**PENYATA KEWANGAN TAHUNAN PERSAMA  
1 JUN 2010 HINGGA 31 MEI 2011 (diluluskan Nov 2011)**

**PERSATUAN SAINS MATEMATIK MALAYSIA (PERSAMA)**

(Malaysian Mathematical Sciences Society)

d/a Pusat Pengajian Sains Matematik

Fakulti Sains & Teknologi

Universiti Kebangsaan Malaysia

UKM Bangi 43600, Selangor D.Ehsan

Web: <http://www.persama.org.my>

Tel: 603-89213423/5759/603-89215713/603-89213422

Faks: 603-89254519

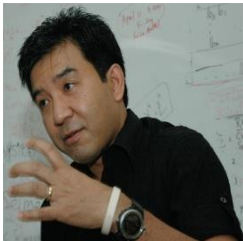
**Akaun Penerimaan dan Pembayaran  
Untuk Jangkamasa Dari 1 Jun 2010 -31 Mei 2011**

| <b>Penerimaan</b>                                |            |
|--------------------------------------------------|------------|
| Yuran Keahlian                                   | 13180.00   |
| Baki kutipan yuran OMK 2010                      | 20820.00   |
| Kutipan yuran OMK 2011                           | 100832.00  |
| Sumbangan Exxon Mobil untuk IMO 2010             | 100000.00  |
| Sumbangan Exxon Mobil untuk IMO 2011             | 100000.00  |
| Sumbangan MARA untuk IMO 2010                    | 5835.50    |
| Sumbangan KPT untuk IMO 2010                     | 59950.00   |
| Sumbangan KPT untuk Anugerah PERSAMA 2010        | 26100.00   |
| Sumbangan Nationwide untuk Anugerah PERSAMA 2010 | 3000.00    |
| Langganan Bulletin PERSAMA                       | 6763.75    |
| Saguhati penjualan buku Olimpiad                 | 420.00     |
| Jualan Buku OMK                                  | 2985.00    |
| Jualan topi PERSAMA                              | 20.00      |
| Bayaran balik sumbangan ICMS 2010                | 2000.00    |
| Bayaran balik sumbangan RCAEM 2010               | 2000.00    |
| Bayaran PFPMaths Bayaran PFPMaths                | 390.00     |
| Hibah Bank Muamalat                              | 14812.55   |
| Jumlah Penerimaan                                | 459,108.80 |
| <b>Pembayaran</b>                                |            |
| Kegiatan OMK 2010                                | 20229.80   |
| Kegiatan OMK 2011                                | 14859.20   |

|                                                     |            |
|-----------------------------------------------------|------------|
| Hadiah Pemenang OMK 2010                            | 9000.00    |
| Kegiatan IMO 2011                                   | 141206.40  |
| Perbelanjaan Anugerah PERSAMA 2010                  | 8250.00    |
| Hadiah Pemenang Anugerah PERSAMA 2010               | 8200.00    |
| Aktiviti Pelajar Matematik UTM 2010                 | 1000.00    |
| Aktiviti Pelajar Matematik UiTM 2010                | 2000.00    |
| Aktiviti Pelajar- 40 Tahun Sains Matematik UKM 2010 | 2000.00    |
| Anugerah Pelajar Cemerlang UiTM                     | 200.00     |
| Anugerah Pelajar Cemerlang UPM                      | 400.00     |
| Penajaan ICMS 2010, PERSAMA-AIBU Dpt. Mathematics   | 21000.00   |
| Penajaan ITSM 2011, PERSAMA-Samarkand Univ.         | 15430.00   |
| Perbelanjaan Profesor Pelawat (Prof. Frank Morgan)  | 3253.20    |
| Perbelanjaan Mesyuarat PERSAMA                      | 19308.80   |
| Kos Penerbitan MENEMUI MATEMATIK 2009               | 12000.00   |
| Yuran Tahunan Ahli COSTAM                           | 100.00     |
| Sumbangan IMT-GT2010                                | 2000.00    |
| Sumbangan IWOMA1                                    | 1000.00    |
| Sumbangan 5th National Maths Competition            | 1000.00    |
| Sumbangan UKM-UNRI 2010                             | 1500.00    |
| Sumbangan ICMS2'2010                                | 2000.00    |
| Sumbangan SKSM-18                                   | 5000.00    |
| Sumbangan BIGTC2011                                 | 2500.00    |
| Sumbangan ICMCB 2011                                | 2000.00    |
| Sumbangan FSC 2011                                  | 1500.00    |
| Sumbangan NCGS 2011                                 | 1500.00    |
| Sumbangan SKSM-19                                   | 5000.00    |
| Sumbangan Kem Matematik Johor 2011                  | 20000.00   |
| Sumbangan Bengkel SEAMS 2011                        | 1000.00    |
| Sumbangan KEGEMMATAM 2011                           | 5000.00    |
| Sumbangan Sem. Sains & Matematik 2011               | 3000.00    |
| Sumbangan Sem. Etnomatematik 2011                   | 2500.00    |
| Kos penyelenggaraan laman web PERSAMA               | 9247.00    |
| Stem & Pos                                          | 597.50     |
| Elaun Pembantu Setiausaha 2010                      | 2400.00    |
| Caj Perkhidmatan Bank                               | 40.00      |
| Jumlah Pembayaran                                   | 347,221.90 |
| Lebihan                                             | 111,886.90 |

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## Berita Persatuan sains matematik lain di Asia

|                                                                                                        |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                         |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Prof. Nemenzo</p>  | <p><b>President, South East Asian Mathematical Society (SEAMS), 2010 – 2011:</b><br/>Dr. Fidel Nemenzo,<br/>Institute of Mathematics<br/>University of the Philippines<br/>Diliman, Quezon City, Philippines 1101<br/>fidel@ math.upd.edu.ph</p>         |                                                                                                                                                                                                                                                                                                                                         |
|                      | <p><b>Edy Tri Baskoro, SEAMS Vice-President 2010-2011</b><br/>Combinatorial of Mathematics Research Division<br/>Faculty of Mathematics and Natural Sciences<br/>Institut Teknologi Bandung (ITB)<br/>Bandung, Indonesia<br/>ebaskoro@math.itb.ac.id</p> |                                                                                                                                                                                                                                                                                                                                         |
|                     | <p><b>Le Tuan Hoa (SEAMS President-Elect 2012-13)</b><br/><b>SEAMS Vice-President 2010-2011</b><br/>Institute of Mathematics, Hanoi, Vietnam, ithoa @.maths.ac.vn</p>                                                                                    |                                                                                                                                                                                                                                                                                                                                         |
| <p><b>Mathematical Society of Brunei DS</b><br/>Presiden 2011:<br/>Tiada maklumat</p>                  |                                                                                                                                                                       | <p><b>Himpunan Matematikawan Indonesia (Indonesian mathematical Society/Indo-MS).</b><br/>Presiden 2011: Prof. Dr. Budi Nurani Ruchjana<br/>Fakultas Matematika dan Ilmu, Pengetahuan, Jurusan Matematika, Universitas Padjadjaran, Jalan Raya Bandung-Sumedang Km. 21, Jatinangor Sumedang 45363, Indonesia<br/>budinr@unpad.ac.id</p> |

|                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                            | <p><b>Mathematical Soc. of the Philippines:</b><br/>         Presiden 2010-2011:<br/>         Dr. Jumela Sarmiento,<br/>         Department of Mathematics,<br/>         Ateneo de Manila University,<br/>         Quezon City, Philippines<br/> <a href="mailto:jumela@math.admu.edu.ph">jumela@math.admu.edu.ph</a></p>                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    | <p><b>Singapore Mathl. Soc.</b><br/>         Presidennya, Prof. Zhu<br/>         Chengbo, Dpt of maths,<br/>         NUS<br/> <a href="mailto:matzhucb@nus.edu.sg">matzhucb@nus.edu.sg</a></p>                                                                                                                                                                                                                    |
|                                                                                                                                                                                                                            | <p><b>Mathematical Assoc. of Thailand:</b> Presidenya,<br/>         Yongwimon Lenbury<br/>         (Prof. Dr.)<br/>         Chair, Graduate Program<br/>         Committee,<br/>         Dpt of Maths,<br/>         Mahidol University,<br/>         Bangkok, THAILAND<br/> <a href="mailto:scylb@mahidol.ac.th">scylb@mahidol.ac.th</a></p>                                                                                                                                                                                                                                                                                                                                                                                                         |                                                    | <p><b>Vietnam Mathematical Soc.</b><br/> <br/>         Prof. Le Tuan Hoa<br/>         Managing Director,<br/>         VIASM (Vien NCCCT),<br/>         7th Floor Ta Quang Buu<br/>         Library in the Campus of<br/>         Hanoi University of<br/>         Science and Technology,<br/>         1 Dai Co Viet, Hanoi,<br/>         Vietnam<br/> <a href="mailto:lthoa@math.ac.vn">lthoa@math.ac.vn</a></p> |
|  <p><a href="http://www.moeys.gov.kh">www.moeys.gov.kh</a><br/> <a href="mailto:chanroath@hotmail.com">chanroath@hotmail.com</a></p>  | <p><b>Kemboja</b><br/> <b>Cambodian</b><br/> <b>Mathematical Society</b><br/> <b>President:</b> Dr. Chan<br/>         Roath<br/>         Director of Department<br/>         Scientific Research,<br/>         Ministry of Education,<br/>         Youth and Sports,<br/>         Cambodia.<br/>         #23, Str.360, Sangkat<br/>         Beung Keng Kang I,<br/>         Khan Chamkamorn, Phnom<br/>         Penh, Cambodia.<br/>         %%%%%%%%%%</p> <p>Prof. W. S. Cheung<br/>         Representative of Hong<br/>         Kong, Department of<br/>         Mathematics<br/>         Univ. of Hong Kong<br/> <a href="mailto:wscheung@hku.hk">wscheung@hku.hk</a>;<br/> <a href="mailto:wscheung@hkucc.hku.hk">wscheung@hkucc.hku.hk</a></p> | <p><b>Laos &amp; Myanmar:</b><br/>         Sehingga akhir 2011, Laos &amp; Myanmar belum ada<br/>         persatuan matematiknya</p> |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                   |

## DI PUNCAK MENARA GADING

Tiada maklumat

[illegible]

## GELANGGANG AKADEMIWAN

TERBIT ATAU TERAPIT: ADA HASIL, NUKIL; ADA LOMPANG, TUMPANG; ADA KARYA, EDAR; ADA KERTAS BERGEGAS; ADA MAKALAH, BEREHLAH...

**PENERBITAN SAINS MATEMATIK UKM 2009**

**Penerbitan PSM, UKM 2009**

## Buku

Maslina Darus dan Khalifa Al-Shaqsi. *Lecture series on geometric function theory*. TST20091248  
Abdul Razak Salleh. *Matematik dalam budaya Melayu*. T1520091355

### Dalam Antologi/Buku

Abd Ghafur bin Ahmad. Bab dalam buku *PERMATApintar : Pengalaman UKM*. TST2010699  
Abdul Razak Salleh. 2009. Bab dalam buku *Sains dan Teknologi Alam Melayu*. TST2010971

Jaffary Awang, Rofizah Mohammad@Muhammad Noor, Arena Che Kassim, Muda@Ismail Ab Rahman, Tengku Ghani Tengku Jusoh@Muhammad Khatim Hasan. . Bab dalam buku *Islam di era globalisasi*. TPP2009791

Maslina Darus and Khalifa Al-Shaqsi . Bab dlm buku *Advanced Technologies* TST20101537

Muda@IsmailAbd.Rahman,Jaffary Awang,Rofizah Mohammad@Mohammad Nor,Arena Che Kasim,Tg.Ghani Tg.Jusoh&Mohamad Khatim Hasan. Bab dalam buku *Islam di era globalisasi*. TPP2009790

Noorizam Daud, Kamarulzaman Ibrahim. Bab dalam buku *Advances in numerical methods* TST20101059

Syakila Ahmad, Norihan M. Arifin, Roslinda Nazar & Ioan Pop. Bab dlm buku *Advances in Numerical Methods*  
TST2010486

Zulkifli Mohd Nopiah dan Wan Rosmanira Ismail. 2009. . Buku. *Application of network models*. TTK2010502  
Zulkifli Mohd. Nopiah, Wan Rosmanira Ismail. Bab dalam buku *Applications of Network Models* TST2010817

Zulkifli Mohd Nopiah, Wan Rosmanira Ismail, Nur Jumaadzan Zaleha Mamat. 2009. Bab dalam buku *SBMP4303 Decision Modelling and Analysis*. ST20101347

## Jurnal

Aabed Mohammed, Maslina Darus and Daniel Breaz. Fractional Calculus for Certain Integral Operator Involving Logarithmic Coefficients . *Journal of Mathematics and Statistics*. TST20091274

Ababneh O.Y., Ahmad R. Construction of third-order diagonal implicit Runge-Kutta methods for stiff problems *Chinese Physics Letters*. T1520092496

Ababneh O.Y., R. Ahmad and E. S. Ismail. Design of New Diagonally Implicit Runge-Kutta Methods for Stiff Problems . *Applied Mathematical Sciences*. TST2010120

Abdulaziz, O; Chowdhury, MSH; Hashim, I; Momani, S. Direct Solution of Second-order BVPs by Homotopy-perturbation Method . *Sains Malaysiana*. T1520092611

Abdulaziz O., I. Hashim. Fully developed free convection heat and mass transfer of a micropolar fluid between porous vertical plates . *Numerical Heat Transfer Part A Applications*. TST20091516

Abdulaziz, O., Hashim, I., Ismail, E.S. 2009. Approximate analytical solution to fractional modified KdV equations *Mathematical and Computer Modelling*. TST20082359

Abdulaziz O., N. F. M. Noor and I. Hashim. Homotopy analysis method for fully developed MHD micropolar fluid flow between vertical porous plates . *International Journal For Numerical Methods In Engineering*. TST20082025

Abu Hassan Shaari Mohd. Nor, A. Shamiri & Zaidi Isa. 2009. Comparing the accuracy of density forecasts from competing GARCH models. *Sains Malaysiana*. T1520091524

Ahmad Mahir Razali & Ali A. Salih. 2009. Combining two Weibull distributions using a mixing parameter *European Journal of Scientific Research*. TST20091480

Ahmad Mahir Razali, Ali A. Salih and Asaad A. Mahmi. Estimation Accuracy of Weibull Distribution Parameters *Journal of Applied Sciences Research*. TST20091483

Ahmad Mahir Razali and Shahriyah Ali. Generating Treatment Plan in Medicine: A Data Mining Approach *American Journal of Applied Sciences*. TST2009315

Ahmad Mahir R., W.D. Wan Rozita, J. Khairiah and B.S. Ismail. Fitting a Nonlinear Regression Model to Gauge Heavy Metal Uptake in Spinach (*Amaranthus hybridus* L.) . *American-Eurasian Journal of Agricultural & Environmental Sciences*. TST20091547

Al-Omari A., Takashi Noiri, and Mohd. Salmi Md. Noorani. 2009. Characterizations of strongly compact spaces *International Journal of Mathematics and Mathematical Sciences*. TST20101115

Al-sawalha MM, Noorani MSM. 2009. A numeric-analytic method for approximating the chaotic Chen system *Chaos Solitons and Fractals*. T1520091228

Al-sawalha MM. & M.S.M. Noorani. 2009. Anti-synchronization between two different hyperchaotic systems *Journal of Uncertain Systems*. TST2010871

Al-sawalha M.M., Noorani M.S.M. 2009. Anti-synchronization of chaotic systems with uncertain parameters via adaptive control . *Physics Letters, Section A*. T1520091824

- Al-Sawalha M.M., Noorani M.S.M. 2009. Anti-synchronization of two hyperchaotic systems via nonlinear control *Communications in Nonlinear Science and Numerical Simulation*. 1520091101
- Al-Sawalha M.M., Noorani M.S.M. 2009. Application of the differential transformation method for the solution of the hyperchaotic Rossler system. *Communications in Nonlinear Science and Numerical Simulation*. T1520091329
- Al-Shaqsi K. and M. Darus. 2009. Application of Holder Inequality in Generalised Convolutions for Functions with Respect to k-Symmetric Points. *Applied Mathematical Sciences*. TST20091252
- Al-Shaqsi K. and M. Darus. 2009. A multiplier transformation defined by convolution involving nth order polylogarithm functions . *International Mathematical Forum*. TST20091437
- Al-Shaqsi K. and M. Darus. Differential Subordination and Superordination with Multiplier Transformation *International Journal of Open Problems in Computer Science and Mathematics*. TST20091214
- Al-Subh SA, Alodat MT, Ibrahim K, Jemain AA. EDF Goodness of Fit Tests of Logistic Distribution Under selective Order Statistic . *Pakistan Journal of Statistics*. T1520092536
- Alomari M. and M. Darus. Eejer inequality for double integrals . *Facta Universitatis (NIS), Ser. Math. Inform.* TST20101158
- Alomari A.K., Noorani M.S.M., Nazar R. 2009. Adaptation of homotopy analysis method for the numeric-analytic solution of Chen system. *Communications in Nonlinear Science and Numerical Simulation*. T1520091182
- Alomari A.K., Noorani M.S.M., Nazar R. Comparison between the homotopy analysis method and homotopy perturbation method to solve coupled Schrodinger-KdV equation. *Journal of Applied Mathematics and Computing*. T15200917
- Alomari A.K., M.S.M. Noorani, R. Nazar. Explicit series solutions of some linear and nonlinear Schrodinger equations via the homotopy analysis method . *Communications in Nonlinear Science and Numerical Simulation*. TST2009993
- Anuar Ishak, Roslinda Nazar, Ioan Pop. 2009. Boundary layer flow and heat transfer over an unsteady stretching vertical surface. *Meccanica*. TST20091454
- Anuar Ishak, Roslinda Nazar, Ioan Pop. Dual solutions in mixed convection boundary layer flow of micropolar fluids . *Communications in Nonlinear Science and Numerical Simulation*. TST2009272
- Anuar Ishak, Roslinda Nazar & Ioan Pop. Dual Solutions of the Extended Blasius Problem. *Matematika UTM*. TST2010230
- Anuar Ishak, Roslinda Nazar, Ioan Pop. Heat transfer over an unsteady stretching permeable surface with prescribed wall temperature . *Nonlinear Analysis: Real World Applications*. TST20091229
- Anuar Ishak, Roslinda Nazar, Ioan Pop. Flow and heat transfer characteristics on a moving flat plate in a parallel stream with constant surface heat flux . *Heat and Mass Transfer*. TST20091157
- Awang Kechil S., Hashim I. 2009. Approximate analytical solution for MHD stagnation-point flow in porous media *Communications in Nonlinear Science and Numerical Simulation*. T1520091338
- Azami Zaharim, Ahmad Mahir Razali, Rozaimah Zainal Abidin, Kamaruzzaman Sopian. Fitting of Statistical Distributions to Wind Speed Data in Malaysia . *European Journal of Scientific Research*. TTK20091696
- Azami Zaharim, Rafizah Rajali, Raden Mohamad Atok, Kamarulzaman Ibrahim & Ahmad Mahir Razali. 2009. A study on the nature of an additive outlier in ARIMA (1,1) models . *European Journal of Scientific Research*. TST20091481

- Bataineh, AS; Noorani, MSM; Hashim, I. 2009. Analytical treatment of generalized Burgers-Huxley equation by homotopy analysis method. *Bulletin Of The Malaysian Mathematical Sciences Society*. T1520091817
- Bataineh A.S., M.S.M. Noorani, I. Hashim. Direct solution of nth-Order IVPs by homotopy analysis method *Differential Equations and Nonlinear Mechanics*. TST20091713
- Bataineh A.S., Noorani M.S.M., Hashim I. Homotopy analysis method for singular IVPs of Emden-Fowler type *Communications in Nonlinear Science and Numerical Simulation*. T1520091357
- Cheong, CW; Nor, AHSM; Isa, Z. 2009. A Simple Power-Law Tail Estimation of Financial Stock Return. *Sains Malaysiana*. T1520092613
- Cheong, CW; Isa, Z; Nor, AHSM. Financial Risk Evaluations in Malaysian Stock Exchange using Extreme-Value-Theory and Component-ARCH Model . *Sains Malaysiana*. T1520092391
- Chin Wen-Cheong, Abu Hassan Shaari Mohd Nor and Zaidi Isa. Evaluation of long memory and asymmetric value-at-risk for long and short trading positions: an empirical study of Malaysian stock market . *International Journal of Business and Society* . TST200942
- Chowdhury M.S.H. & Hashim I. 2009. Application of homotopy-perturbation method to Klein-Gordon and sine-Gordon equations. *Chaos, Solitons and Fractals*. T1520091491
- Chowdhury.H. & Hashim I. 2009. Application of multistage homotopy-perturbation method for the solutions of the Chen system. *Nonlinear Analysis: Real World Applications*. T1520091596
- Chowdhury M.S.H., I. Hashim, O. Abdulaziz. 2009. Comparison of homotopy analysis method and homotopy-perturbation method for purely nonlinear fin-type problems. *Communications in Nonlinear Science and Numerical Simulation*. T1520091623
- Fazrolrozi, Rambely, A.S. 2009. A model for two-link kinematic chain of lower limb using Kane`s method from a jumping smash activity. *European Journal of Scientific Research*. T152010869
- Fu M.J., Arifin N.M., Saad M.N., Nazar R.M. Effect of non-uniform temperature gradient on Marangoni convection in a micropolar fluid . *European Journal of Scientific Research*. T1520091461
- Fu M.J., Norihan Md. Arifin, Roslinda Nazar & Mohd Noor Saad. Effect of non-uniform temperature gradient and magnetic field on Marangoni convection in a micropolar fluid . *International Review of Chemical Engineering*. TST2010427
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## **Penerbitan Sains Matematik UM 2009**

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### **Penerbitan Jabatan Matema, UPM 2009**

Tiada maklumat

### **Penerbitan Fak.Sn Komp & TM, UPM 2009**

Tiada maklumat

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Penerbitan UPM & UTM (akan dimuatkan dalam WB 2012)

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### **Seminar dsbnya di Malaysia (Julai-Disember 2011)**

2 Julai 2011, telah berlangsung “Seminar Etnosains dan Etnomatemtik Rumpun Melayu” di Institut Penyelidikan Matematik (INSPEM), Universiti Putra Malaysia (UPM)

4 Julai 2011: 2nd Annual Asia Islamic Banking Conference, Kuala Lumpur

12 Julai 2011: 7th International Conference on IT in Asia (CITA11) (CITA 2011), Hilton Kuching Hotel, Kuching, Sarawak

14 Julai 2011: Seminar Setengah Hari Pengkomputeran Grid (*Grid Computing*) dan Pengkomputeran Awan (*Cloud Computing*), di UPM.

18 Julai 2011: KL International Conference on Islamic Finance 2011 (KLIC-iF), Hotel Istana, Kuala Lumpur

12 Ogos 2011: 3rd International Conference on Software Technology and Engineering (ICSTE 2011), K. Lumpur

4 Sept. 2011: International Conference on Information Technology & Management Issues (ICITMI) .

19 Sept. 2011: National Postgraduate Conference 2011 (NPC 2011). UTP, Bandar Seri Iskandar, Perak

3 Okt. 2011: International Meeting on Advances in Thermofluids (IMAT 2011) (IMAT 2011), Hotel Avillion Legacy, Melaka

14 Okt 2011: International Engineering for Sustainability Conference (iNESCO) 2011 (iNESCO 2011), USM.

1-3 November 2011: INTERNATIONAL SEMINAR ON THE APPLICATION OF SCIENCE & MATHEMATICS Conference, KUALA LUMPUR

1-3 November 2011: Seminar Antarabangsa Aplikasi Sains Dan Matematik 2011 Seminar 2011 (ISASM 2011), di PutraJaya

4 Nov. 2011: 3rd International Conference on Advanced Management Science (ICAMS 2011), K. Lumpur

14 Nov. 2011: International Conference on Advances in Industrial and Production Engineering - AIPE 2011 (AIPE 2011,)

14 Nov 2011: The International Conference on Informatics Engineering & Information Science (ICIEIS2011) UTM, K. Lumpur

15-17 Nov 2011: 4th International Conference on Science and Mathematics Education (COSMED2011), RECSAM penang, Malaysia

5 Dis. 2011: The 5th International Conference on: Cyberlaw and Information Security (CIS 2011), Faculty of Information and Communication Technology, Melaka

### **Seminar Mingguan INSPEM 2011 (Julai-Dis)**

1/7/2011, Prof. Dr. Abdumalik Rakhimov (Fellow Researcher dari National University of Uzbekistan): on approximation of distributions in the weak topology

15/7/2011, Prof. Dr. Ismail Mohd (Prof. Pelawat dari UMT), an interval-newton-alefeld-hansen-mohd's algorithm for computing and bounding real zeroes.

29/7/2011, Dr. shaharir bin Mohamad Zain (Felo Penyelidik Kanan, Pusat Dialog Peradaban, UM): Ceramah 1 drpd Siri 3 Ceramah "kritikan teori einstein dan teori kuantum". Ceramah 2 pada 5 ogos 2011 dan Ceramah 3 pada 23 sept 2011

12/8/ 2011, Prof. Dr. Abdul Aziz Jemain (Penyelidik Pelawat drp PPSM, UKM): Challenges dealing with malaysian rainfall data

30/9/ 2011, Dr. Provash Kumar Karmokar (Penyelidik pasca-doktoran, Lab. Stataistik Komputasi dan Penyelidikan Operasi, INSPEM): estimation of extreme-value parameters using approximation covariance technique

7/10/2011, Dr. Mohd Bakri Adam (Penyelidik Sekutu, Lab. Statistik Komputasi dan Penyelidikan Operasi, INSPEM): turning your thesis into a book

12/10/ 2011, Dr. Yousof Gheisari (Ahli Sains Pelawat, Lab. Kriptografi, Analisis dan Struktur, INSPEM): spanning trees of diagram groups in graphs over the semigroup with three initial generators using lifting method

14/10/2011, Prof. Dr. Shavkat Alimov (Ahli Sains Pelawat dari National University of Uzbekistan, Moscow State University, Tashkent Branch, Uzbekistan): on regularization on mathematical problems used in modern physics

21/10/2011, Mohd Hafizi mat Yasin (Pel. Siswazah, Penyelia: Dr. Norihan Md Ariffin): mixed convection boundary layer embeded in a thermally stratified porous medium saturated by a nanofluid

28/10/2011, Dr. Mahboubeh Farid (Penyelidik Pasca-doktoran, Laboratori Statistik Komputasi dan Penyel. Op, INSPEM, Penyelia: Dr. Leong Wah June), a new stepsize for diagonal gradient type method

4/11/ 2011, Dr. K. Arichandran (Penyelidik Pelawat, MIMOS): presentation of the mathematical problem set from the r&d cluster in mimos

11/11/2011, Dr. Provash Kumar Karmokar (Penyelidik pasca-doktoran, Lab. Statisytik Komputasi dan Penyel. Op, INSPEM): multicointegration analysis of the hyv boro rice production of bangladesh

25/11/2011, Prof. Dr. Abdumalik Rakhimov (Fellow Researcher, National University of Uzbekistan): on the behavior of spectral expansions of distribution connected with pdo near boundary

2/12/2011, Dr. Md. Anowar Hossain (Penyelidik pasca-doktoran, Lab. Etnomatematik dan Didaktik, INSPEM, Penyelia: Dr. Rohani Ahmad Tarmizi): collaborative and cooperative learning in malaysian mathematics education

9/12/2011, Syed Nasrullah Ali Qazi (pel. Siswazah, INSPERM, Penyelia: Dr. Hishamuddin Zainuddin) : a study of bianchi type i cosmological solutions with an interacting two fluid scenario dark energy  
 16/12/2011, Dr. Hishamuddin Zainuddin (Ketua, Lab. Sains Komputasi dan Fizik Matematik, INSPERM): progress on kochen-specker theorem (inspem remix)  
 23 /12/ 2011, Prof. Dr. Ismail Mohd (Penyelidik Pelawat, UMT) : pembinaan graf fungsi selanjar bagi bacaan al-quran: basmallah  
 30/12/2011, Prof. Dr. a.H.M.Rahmatullah Imon (Ahli Sains Pelawat dari Ball State University, USA): Statistics and Society

## Siri Kolokuium di ISM, UM (Julai-Disember 2011)

Dec 16: *Lim Kay Jin (Department of Mathematics, Faculty of Science, National University of Singapore), Green's Vertices and Complexity for Specht Modules*  
 Dec 14: *Sharavan Luckraz (Department of Economics, Bond University, Australia). Topics in Game Theory; Zafar Ahsan (Department of Mathematics, Arligarh Muslim University, Aligarh, India). Applications of Differential Equations in Medical Sciences*  
 Oct 27: *Adrianto Wirawan (A-STAR Singapore). CBESW: Sequence alignment on the Playstation 3*  
 Oct 25: *Chee Wing Loon (School of Mathematical Sciences, Universiti Sains Malaysia). Quasigroups and Loops*  
 Sep 21: *Huzoor H. Khan (Department of Mathematics, AMU Aligarh 202002, India). On the degree of approximation*  
 Aug 25: *S. Sarifah Radiah Shariff (Ph.D. candidate, ISM,UM). Public Health Care Facility Planning in Malaysia: Using Location Allocation Models;*  
*Md Jauharul Haqaiq Bin Harun (M.Sc. candidate, ISM,UM). Simulation of Lithium Intercalation in Cathode of Lithium-ion Battery*  
 Aug 4: *Chang Yun Fah (Ph.D. candidate, ISM,UM). Statistical Based Measure for Performance Indicator in Some Image Processing Problems*  
 July 6: *Subir Das (Department of Applied Mathematics, Institute of Technology Banaras Hindu University, India). Some Applications of Fractional Calculus*

## LAPORAN SEMINAR DSBNYA DI MALAYSIA JULAI-DIS 2011

### Seminar Setengah Hari Komputeran Grid (*Grid Computing*) dan Pengkomputeran Awan (*Cloud Computing*).

Pada 14 Julai 2011 bertempat di Pusat Teknologi Maklumat telah diadakan Seminar Setengah Hari Pengkomputeran Grid (*Grid Computing*) dan Pengkomputeran Awan (*Cloud Computing*). Dr Hong Ong dari MIMOS telah berkongsi ilmu dengan peserta. Juga berkongsi pengalaman ialah Sdr Farhan dari UPM.

Apakah sebenarnya komputeran grid? Secara mudah komputeran grid ialah hasil pengkomputeran yang berkongsi kuasa pemprosesan dari komputer di pelbagai institusi yang mempunyai kelebihan sumber yang biasanya tidak digunakan sepenuhnya di tempat sendiri.

Biasanya atur cara yang besar dan kompleks memerlukan kuasa pemprosesan yang tinggi seperti ramalan cuaca, reaktor nukleair, simulasi ekonomi negara dan sebagainya yang memerlukan kuasa pemprosesan yang besar, kadang-kadang sehingga 100,000 pemproses (prosesor) dan dilakukan secara selari.

Secara lebih tepat, komputeran grid ialah kombinasi infrastruktur perkakasan dan perisian komputer yang digabung bagi memudahkan pelaksanaan tugas komputeran tingkat tinggi (*high-end computing*).

Ian Foster dan Carl Kesselman telah mencipta "*Global Toolkit*" bagi memudahkan komputeran grid yang bersifat sumber piawai yang koordinasikan, sumber terbuka (*open source*), protokol kegunaan umum, memberikan perkhidmatan yang tidak remeh dan mempunyai perkakasan madya (*middleware*) untuk koordinasi.

Komponen utama dari komputeran grid ialah organisasi maya (OM; *virtual organization*(VO)) yang menjadi titik masuk pengguna komputeran grid. Siapa yang ingin mengguna kemudahan komputeran grid mestilah menjadi ahli organisasi maya terlebih dahulu.

Mulai tahun 2005 hingga tahun 2007, komputeran awan (*cloud computing*) mula diminati oleh pengguna, kumpulan yang terkenal ialah Komputeran Awan Nebula (*Nebula Cloud Computing*). Melalui komputeran awan pengguna tidak perlu lagi membeli perisian yang mahal-mahal, ianya terdapat di internet dan bayaran terhadap penggunaannya dikira berdasarkan masa atau tahap penggunaan perisian tersebut.

Secara jelasnya, komputeran awan merupakan jenis komputeran yang berasaskan utiliti (penggunaan); sesiapa yang memerlukan sesuatu perisian tertentu akan hanya menyatakan keperluannya melalui organisasi maya masing-masing yang kemudiannya akan menghubungi pemilik perisian tersebut untuk memberikan masa penggunaan dengan kadar bayaran tertentu. Pihak pengguna tidak lagi perlu menguruskan lesen perisian, dan lain-lain yang berkaitan dengan perisian tersebut. Apa yang mereka perlu ialah menggunakan perisian tertentu dan ia ada di awan (*cloud*).

Bagi memudahkan pelaksanaan komputeran awan, berbagai model diutarakan seperti model persendirian, komuniti, awam dan juga hybrid.

Pihak MIMOS mempunyai (Serahan Kerja Aliran Kerja Labuhan Gred-P (*P-Grade Portal Workflow Job Submission*)) sebagai kemudahan bagi sesiapa yang memerlukan perkhidmatan pengkomputeran. Pada dasarnya, mereka menyediakan pentas untuk ahli sains pengkomputeran (*computational scientist*), bukan kepada ahli sains komputer, kerana ahli sains komputer boleh mengadakan sendiri kemudahan pengkomputeran melalui kepakaran mereka sendiri.

Kepada yang ingin mendapatkan maklumat lanjut mengenai komputeran grid dan juga komputeran awan, boleh ke laman web, <http://www.hongong.org/>.

Semoga kita menjadi masyarakat yang celik teknologi maklumat dan menjadi masyarakat yang berpengetahuan.

Drp. Dr. Ismail Abdullah, USIM

## Seminar Sehari Etnosains dan Etnomatematik

Apa maknanya Etnosains dan Etnomatematik? Mungkin ini yang sedang bermain di benak fikiran kita. Secara ringkas etnosains merupakan sains yang berasaskan bangsa tertentu, juga etnomatematik bermakna matematik berasaskan kepada bangsa tertentu. Pada 2 Julai 2011, telah berlangsung “Seminar Etnosains dan Etnomatematik Rumpun Melayu” di Institut Penyelidikan Matematik (INSPeM), Universiti Putra Malaysia (UPM). Tajuk-tajuk yang dibincang termasuklah:

- 1) Islamisasi Perubatan Tradisional Melayu dalam Sejarah (PM Dr Nurdeng Durasesh, UPM),
- 2) Wacana Pengislaman Sains di Malaysia: Respond an Signifikan dalam Pemikiran Tokoh Pemikir Melayu-Islam (Mahadi Abu Hassan, UTeM),
- 3) Persamaan Bentuk Perahu dari Lembangan Mekong dengan Perahu-Perahu di Semenanjung Malaysia: Imitasi atau Improvisasi? (PM Dr. Pisol Maidin, UiTM),
- 4) Sejarah Perkembangan Wacana Pengislaman Sains (Maisarah Hasbullah, UM),
- 5) Set Kata Ganda Bebas dan Masalah Pentakrifan Set dalam Bahasa (Mohd Yunus Sharum, UPM),
- 6) Penggabungan Beberapa Kebajikan Dalam Jadual Hayat Untuk Insurans Takaful Keluarga (Prof Dr Ismail Mohd, UMT),
- 7) Penyelidikan Bandingan Terhadap Manuskrip Faraidh Aceh (Dr Salmawaty, USK, Aceh),
- 8) Struktur dan Isi dari Sebuah Manuskrip Tabel Faraidh dan Potensi Pemanfaatannya pada Masa Kini (Dr Said Munzir, USK, Aceh),
- 9) Konsep Ekonomi Manfaat Melayu (Dr Mohammad Alinor Abdul Kadir, UKM),
- 10) Unsur Matematik Dalam Pantun Melayu (Sharifah Kartini Said Husain, UPM),
- 11) Dialektologi Memperkaya Etnosains-Matematik Melayu (Mohd Tarmizi Hasrah, UKM).

Drp Dr. Ismail Abdullah, USIM

## SEMINAR DSBNYA SANA-SINI 2012-2113 (KELAK)

sumber: <http://www.ams.org/mathcal/> ; <http://www.siam.org/meetings/calendar.php>  
<http://www.conferencealerts.com/mathematics.htm>; <http://www.worldses.org/announcement.htm>  
[http://www.netlib.org/confdb/conf\\_list.html](http://www.netlib.org/confdb/conf_list.html); <http://www.mathgate.bham.ac.uk/mathportal>  
<http://www.allconferences.com/science/mathematics/> ; <http://at.yorku.ca/amca/>

laman universiti berkenaan

### **DALAM NEGARA 2012** (<http://conferencealerts.com/malaysia.htm>):

- Januari 4-5, 2012: seminar on applications of cutting-edge statistical methods in research, anjuran bersama Laboratori Perkhidmatan Statistik dan Komputasi dan Laboratori Statistik komputasi dan Penyelidikan operasi, di INSPEM, Universiti Putra Malaysia
- Februari/Pebruari 7-8, 2012: International Conference on Advanced Information System, E-Education and Development, Kuala Lumpur. Anjuran College of Open Learning Society. <http://www.icaised.com>
- Februari/Pebruari 9-10, 2012: Conference on Computer Science & Computational Mathematics, Melaka. <http://www.cccsm.net>
- Feb/Peb 11-12, 2012: International Conference on Computational Techniques and Artificial Intelligence (ICCTAI'2011), P.Pinang. <http://psrcentre.org/listing.php?subcid=43&mode=detail>
- Feb/Peb 11-12, 2012: International Conference on Management, Behavioral Sciences and Economics Issues (ICMBSE'2012), P.Pinang. <http://psrcentre.org/listing.php?subcid=41&mode=detail>
- Mac/Maret 3-5, 2012: international conference on arts, social sciences and technology 2012 (icast 2012), p.pinang, anjuran uitm, kedah
- Mac /Maret 13-15, 2012: international conference on information retrieval and knowledge management (camp'12), k.lumpur. anjuran malaysia society of information retrieval and knowledge management (pecamp), upm, upnm, ukm and uitm. <http://pgcs.upm.edu.my/camp12/>
- Mac /Maret 13-16, 2012: the 1st international conference on decision modeling (icdem2012), kedah, anjuran universiti utara malaysia & malaysian research and education network
- Mac /Maret 20-21, 2012: conference on islamic finance 2012, k. lumpur. anjuran alfalah consulting <http://www.islamic-finance-conference.net/>
- April 7-8, 2012: 2012 international conference on computer networks and communication systems - cncs 2012, k.lumpur. <http://www.sie-edu.sg/cnccs/index.htm>
- April 7-8, 2012: 2012 international conference on bioinformatics and computational biology (icbcb 2012), k. lumpur. <http://www.icbcb.org/index.htm>
- April 7-8, 2012: 2012 4th international conference on digital image processing (icdip 2012), k.lumpur. <http://www.icdip.org/>
- Mei 30-31, 2012: 2nd regional conference on applied and engineering mathematics (rcaem-ii 2012), p.pinang. anjuran institute of engineering mathematics (imk), universiti malaysia perlis (unimap). <http://rcaem12.unimap.edu.my/>
- Jun/Juni 3-5, 2012: the first international conference on informatics & applications (icia2012), k. terengganu. anjuran sdiwc and unisza. <http://www.sdiwc.net/icia2012/>
- Jun /Juni 3-6, 2012: 2012 international symposium on humanities, science and engineering (shuser 2012), k.lumpur, anjuran research management institute (rmi) and ieee malaysia power electronics, industrial electronics & industrial applications joint chapter.

- Jun/Juni 3-5, 2012: international conf. on inform & applications 2012, fakulti informatik, universiti sultan zainal abidin dengan kerjasama the society of digital information and wireless communications (sdiwc)
- Jun/Juni 4-6, 2012: the 3rd international conference on cryptology & computer security 2012 (cryptology2012), di Holiday Villa Beach Resort & Spa, Langkawi. Anjuran INSPEM bersama USM, MSCR, dan cybersecurity. Langkawi. <http://math.usm.my/Cryptology2012>
- Jun/Juni 12-14, 2012: International Conference on Fundamental and Applied Sciences (ICFAS 2012), K. Lumpur. Anjuran UTP <http://www.utp.edu.my/icfas2012/>
- Jun/Juni 12-14, 2012: International Conference on Computer and Information Sciences (ICCIS 2012), K. Lumpur. Anjuran UTP. <http://www.utp.edu.my/iccis2012/>
- Jun/Juni 12-14, 2012: 4th International Conference on Intelligent & Advanced Systems (ICIAS2012), K. Lumpur. Anjuran UTP <http://www.utp.edu.my/icias2012/>
- Jun/Juni 26-28, 2012: The International Conference on Cyber Security, Cyber Warfare and Digital Forensic (CyberSec2012), K. Lumpur. Anjuran SDIWC and University Putra Malaysia. <http://www.sdiwc.net/CyberSec2012/>
- Jun/Juni 29- Julai 1, 2012: international conference on islamic economics and business (icieb 2012), Alor Gajah, Melaka. Anjuran Universiti Teknologi MARA Johor and Faculty of Economics and Business, Universitas Indonesia, Depok Jakarta. <http://icieb2012.uitm.edu.my/>
- Julai/Juli 2-4, 2012: International Conference on Libraries 2012, K. Baharu. Anjuran USM. <https://sites.google.com/site/usmicol2012/home>
- Julai/Juli 3-5, 2012: 4th International Conference on Computer and Communication Engineering 2012 (ICCCCE 2012), K. Lumpur. Anjuran UIAM. <http://www.iium.edu.my/iccce/12/>
- Julai/Juli 4-6, 2012: KMICE2012: Knowledge Management International Conference 2012, Johor Bahru. <http://www.kmice.uum.edu.my>
- Sep 2-6, 2012: The 1st ISM International Statistical Conference 2012, Persada Johor, Malaysia, anjuran ISM
- Sep 4-6, 2012: 2012 International Symposium on Robotics and Intelligent Sensors (IRIS2012), Kuching. <http://www.iris2012.org/>
- Sep 4-6, 2012: The 1st ISM International Statistical Conference 2012, J. Bahru. Anjuran Malaysia Institute of Statistics (ISM). <http://www.utm.my/ism-1>
- Sep 5-7, 2012: The 12th Pacific Rim International Conference on Artificial Intelligence, Kuching. Anjuran MIMOS. <http://ktw.mimos.my/pricai2012>
- Sep 10-12, 2012: International Conference on Statistics in Science, Business and Engineering 2012 (ICSSBE 2012), Langkawi. Anjuran Universiti Teknologi MARA, University of Macau, University Kebangsaan Malaysia with IEEE Malaysian Computer Society as co-technical sponsor <http://www.icssbe2012.com>
- Sep 12-13, 2012: Information and Communication Technology in Management (ICTM) 2012, Melaka. Multimedia University <http://ictm2012.mmu.edu.my/>
- November/November 1-3, 2012: International Conference on Communication & Media 2012 (i-COME'12), P.Pinang. Anjuran UUM. <http://i-come.webnode.com/>
- Nov/Nop 17-18, 2012: USM-AUT International Conference - Sustainable Economic Development: Policies and Strategies, P.Pinang. Anjuran USM. <http://www.usm.my/uaic2012>

## ASEAN 2012-2013

### Filipina

- Feb/Peb 16-17, 2012: international conference on outcomes-based teaching and learning 2012 (icobtl2012), manila. [http://www.tip.edu.ph/obtl\\_conference\\_2012](http://www.tip.edu.ph/obtl_conference_2012)
- Mac/Maret 27-28, 2012: turing 2012: international conference on philosophy, artificial intelligence and cognitive science, pasay city, manila, anjuran department of philosophy, de la salle university-manila. : <http://turing.pilosopiya.com/conference>
- Mac/Maret 27-28, 2012: turing 2012: international conference on philosophy, artificial intelligence and cognitive science, pasay, manila. <http://turing.pilosopiya.com/conference>

## Indonesia

- April 23-24, 2012: 2nd Annual International Conference on Web Technologies and Internet Applications (WebTech 2012), Bali. anjuran Global Science And Technology Forum. <http://www.webtechconf.org/>
- Mei 7-8, 2012: 2nd Annual International Conference on Operations Research and Statistics (ORS 2012), anjuran Global Science And Technology Forum;. <http://www.orstat.org/>
- Mei 7-8, 2012: 5th Annual International Conference on Computer Games, Multimedia and Allied Technology (CGAT 2012), Bali, anjuran Global Science And Technology Forum. <http://www.cgames.com.sg/>
- Mei 17-18, 2012: 3rd annual international conference on infocomm technologies in competitive strategies (ict 2012), bali, anjuran/tajaan global science and technology forum. <http://www.ict-conference.org/>
- Mei, 17-18, 2012: 3rd annual international conference on advances in distributed and parallel computing (adpc 2012), bali, anjuran global science and technology forum. <http://www.dpcomputing.org/>
- Julai/Juli 3-6, 2012: konferensi nasional matematika xvi, jatinangor, jawa barat, anjuran universitas padjadjaran and indonesian mathematical society
- Okt 22-23, 2012: 3rd advanced topics in artificial intelligence (atai 2012), bali, global science and technology forum. <http://www.aiconf.org/>
- Okt 22-23, 2012: 3rd network tech. & communications (ntc 2012) special track: information technology security (its 2012), bali, anjuran global science and technology forum. <http://www.networkcomm.org/>

## Singapura

- Januari 30-31, 2012: annual international conference on computational mathematics, computational geometry & statistics. <http://www.mathsstat.org>
- Februari/Pebruari 26-28, 2012: 2012 international conference on information and computer networks, icicn 2012, anjuran??
- Feb/Peb 26-28, 2012: 2012 international conference on education and management innovation(icemi 2012), anjuran ??
- Mac/Maret 7-9, 2012: 3rd international problem-based learning symposium 2012, anjuran republic polytechnic
- Mac /Maret 9-10, 2012: international conference on advances in computing and emerging e-learning technologies (icacet 2012), anjuran insitute of information system & research centre
- Mac/Maret 13-14, 2012: international conference on internet & cloud computing technology (icicct 2012), anjuran open learning society
- Mac/Maret 17-18, 2012 international congress on informatics, environment, energy and applications (ieea 2012), anjuran sciei
- Mei 21-22, 2012: 2nd annual international conference on qualitative and quantitative economics research (qqe 2012). <http://www.qq-economics.org>
- Jun/Juni 9-10, 2012: 2012 international conference on computing and computer vision (icccv 2012), <http://www.icccv.org/index.htm>
- Jun/Juni 9-10, 2012: 2012 international conference on software and computer applications(icsca 2012), singapura. <http://www.icsca.org/>

## 2013

- April 15-19, 2013: ieee ssci 2013, ieee symposium series on computational intelligence. : <http://ieee-ssci.org/>

## Bengkel dsb.:

- Mei 14--25, 2012: [School and Workshop on Random Polymers and Related Topics](#) - Institute for Mathematical Sciences, National University of Singapore, Singapore.

<http://www2.ims.nus.edu.sg/Programs/012randompoly/index.php>

Jun/Juni 1--22, 2012: [Financial Time Series Analysis: High-dimensionality, Non-stationarity and the Financial Crisis](#) - Institute for Mathematical Sciences, National University of Singapore, Singapore.

<http://www2.ims.nus.edu.sg/Programs/012hidim/index.php>

Jun 18--Ogos 15, 2012: [Random Matrix Theory and its Applications II](#) - Institute for Mathematical Sciences, National University of Singapore, Singapore.

<http://www2.ims.nus.edu.sg/Programs/012random/index.php>

Ogos/Augustus 13--26, 2012: [Meeting the Challenges of High Dimension: Statistical Methodology, Theory, and Applications](#) - Institute for Mathematical Sciences, National University of Singapore, Singapore.

<http://www2.ims.nus.edu.sg/programs/012stattheory/index.php>

### **Thailand**

Mac/Maret 12-13, 2012: 2nd Annual International Conference on BioInformatics and Computational Biology (BICB 2012) Special Track: Stem Cell Research (SCR 2012), Bangkok, anjuran Global Science & Technology Forum. <http://www.bioinfoconf.org>

Mac/Maret 12-13, 2012: 2nd Annual International Conference on Information Theory and Applications(ITA 2012), Bangkok. Anjuran Global Science and Technology Forum <http://www.infotheoryapp.org/>

April 2-4, 2012: The 7th International Conference on Advances on Computer Science and Engineering, Phuket. <http://www.iasted.org/conferences/home-770.html>

April 2-4, 2012: The 31st International Conference on Modelling, Identification and Control. Phuket. <http://www.iasted.org/conferences/home-769.html>

Mei 9-10, 2012: The 8th International Conference on Computing and Information Technology (IC2IT 2012). Pattaya. <http://www.ic2it.org>

Mei 16-18, 2012: The Second International Conference on Digital Information and Communication Technology and its Applications (DICTAP2012), Bangkok, anjuran/tajaan SDIWC and University of the Thai Chamber of Commerce(UTCC).

Julai/Juli 25-27, 2012: Asia-Pacific Productivity Conference 2012. Bangkok. Anjuran Administration and Management College, King Mongkut's Institute of Technology Ladkrabang. <http://www.appc2012.org>

Dis/Des 16-20, 2012: The 17th Asian Technology Conference in Mathematics, Bangkok, Anjuran ATCM. <http://atcm.mathandtech.org/>

Disember 16-20, 2012: The 17th Asian Technology Conference in Mathematics., Bangkok. <http://atcm.mathandtech.org/>

**2013:** Tiada maklumat

### **Vietnam**

Mac/Maret 5--9, 2012: [5th International Conference on High Performance Scientific Computing](#) - Institute of Mathematics, Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet Road, Hanoi, Vietnam. <http://hpsc.iwr.uni-heidelberg.de/HPSCHanoi2012>

Mac 25-28, 2012: Conference on Partial Differential Equations and Applications.. Vietnam National University, Hanoi, Vietnam. <http://www.amath.washington.edu/events/vietnam2012/>

## **LUAR NEGARA & LUAR ASEAN 2012-2013**

### **Afrika**

#### **Afrika Selatan**

Mac/Maret 14-16, 2012: International conference on african indigenous research and development initiatives, Johannesburg. <http://www.ircabfoundation.org/IRCAB%20Foundation.pdf>

Mei 8, 2012: Cloud Computing World Forum Africa, Johannesburg. <http://www.cloudcomputinglive.com/africa>

Mei 23-24, 2012: Industrial Sustainability Conference, Johannesburg. <http://antimonygreen.com/id28.html>

- Mei 27-30, 2012: Value 2012 - Value in Sustainable Business Practices. Drakensberg, KwaZulu-Natal.  
<http://www.ujvalue.com>
- Julai/Juli 9-13, 2012: XVIth World Economic History Congress, Stellenbosch, Western Cape.  
<http://www.wehc2012.org/>
- Julai 10-12, 2012: International Network Conference (INC 2012), Port Elizabeth, Plymouth University (UK) and Nelson Mandela Metropolitan University (South Africa) <http://www.inc2012.org>
- Oktober 15-18, 2012: ISTE 2012 International Conference on Mathematics, Science and Technology Education, Kruger National Park, Phalaborwa, Limpopo Province, Institute for Science and Technology Education, University of South Africa <http://www.unisa.ac.za/iste-conference>

## Botswana

- September 3-5, 2012: [2nd IASTED African Conference on Health Informatics](#), Gaborone
- September 5-7, 2012: International Conference on Modelling and Simulation Gaborone, Botswana.  
<http://www.iasted.org/conferences/home-761.html>

## Maghribi

- Mei 10-12, 2012: The 3rd International Conference on Multimedia Computing and Systems, Tangier, Tangier. IEEE Morocco Section <http://www.icmcs12.org>
- Jun/Juni 4--6, 2012: [International meeting on "Statistical analysis: Theory and Applications" \(JIASTA2012\)](#) - Mohamed first University, Faculty of Science, Oujda, Morocco.  
<http://sciences1.ump.ma/JIASTA2012/>
- Nov/Nov 5-6, 2012: International Conference on Complex Systems (ICCS'12), Agadi. Ibn Zohr University, Vice-President Spanish Society of General Systems, IEEE Moroccan Section, <http://iccs12.org>

## Bengkel dsb:

- April 9--14, 2012: [Workshop on "Stochastic Analysis and Applications"](#) - Ksar Kaissar, El Kelaa Mgouna (City of Roses), Maghribi/Morocco. <http://www.ucam.ac.ma/itn-marrakech/event.html>

## Uganda

- Ogos/Augustus 5-7, 2012: [8th Annual International Conference on Computing and ICT Research](#), Kampala

# Amerika Selatan

## Argentina

- Jan 3-15, 2012: PASI: Topics in percolative and disordered systems, Facultad de Matemáticas, Pontificia Universidad Católica de Chile Jan 9-Jan 15: Universidad de San Andrés-Sede Capital, Buenos Aires, Argentina. <http://pasi2012.mat.puc.cl>

## Chile

- Mac/Maret 17-21, 2012: The second International Society for Computational Biology Latin American regional meeting (ISCB-Latin America), Santiago. <http://www.iscb.org/iscb-latinamerica2012>

## Mexico

- Mac/Maret 22-24, 2012: 46th Annual Spring Topology and Dynamics Conference. Universidad Nacional Autónoma de México, Mexico City, Mexico. <http://www.matem.unam.mx/STDC2012/>
- Mac 12-14, 2012: Operations research and data mining, ORADM'2012, Cancun. National Polytechnic Institute, <http://oradm2012.com/>
- Julai/Juli 2--4, 2012: [Superluminal Physics & Instantaneous Physics - as new trends in research \(electronic conference\)](#) - University of New Mexico, 200 College Road, Gallup, New Mexico.  
<http://fs.gallup.unm.edu/SuperluminalPhysics.htm>

Oktober 9-10, 2012: International Circulation of Knowledge: Academic & Scientific Issues for Developing Countries, Mexico City, IRD, CINVESTAV, UNAM, OBSMAC. <http://cic.rio.net>

## Peru

April 16-20, 2012: The 10th Latin American Theoretical INformatics Symposium (LATIN 2012), [Universidad Católica San Pablo](http://latin2012.cs.iastate.edu/), in Arequipa, Peru. <http://latin2012.cs.iastate.edu/>

## Amerika Utara

### AS

Feb 15-17, 2012: SIAM Conf. on Parallel Processing for Scientific Computing (PP12), Hyatt Regency Savannah, Savannah, Georgia <http://www.siam.org/meetings/pp12/>

Feb 20-24, 2012 : Percolation and Interacting Systems, Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm579>

Feb 27— Mac 2, 2012: Nonlocal PDEs, Variational Problems and their Applications, Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. <http://www.ipam.ucla.edu/programs/pde2012/>

Mac/Maret 19-21, 2012: Topology: Quantitative and Applied, Tulane University, New Orleans, Louisiana. <http://www.math.tulane.edu/~clifford>

Mac 26-30, 2012: Statistical Mechanics and Conformal Invariance, Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm580>

April 1-4, 2012: The 8th International Conference on Scientific Computing and Applications (SCA2012), University of Nevada Las Vegas (UNLV), Las Vegas, Nevada <http://www.unlv.edu/centers/cams/sca2012/sca2012.html>

April 2-5, 2012: SIAM Conf. on Uncertainty Quantification (UQ12). Raleigh Marriott City Center Hotel, Raleigh, North Carolina <http://www.siam.org/meetings/uq12/>

April 16-18, 2012: 9th International Conference on Information Technology: New Generations, Las Vegas, Nevada, <http://www.itng.info/>

April 26-28, 2012: SIAM Internat. Conf. on Data Mining (SDM12), Disney's Paradise Pier Hotel, Anaheim, California, <http://www.siam.org/meetings/sdm12/>

Mei 9-13, 2012: IEEE Symposium on Computational Intelligence in Bioinformatics & Computational Biology: Gene Regulatory Networks, San Diego, California. IEEE, <http://www.cibcb.org/2012/>

Mei 26, 2012: International Multidisciplinary Conference on Arts and Sciences (IMCAS), Jonesboro, Arkansas. <http://jistudents.wordpress.com/2012-conference/>

Jun/Juni 4-8, 2012: Probability, Control and Finance, Columbia University, New York, New York <http://math.columbia.edu/procofin/>

Jun 11-12, 2012: Mathematical Modeling on Ecology and Epidemiology., University of Wyoming, Laramie, Wyoming. <http://math.uwyo.edu/rmmc/2012>

Jun 18-29, 2012: Noncommutative Algebraic Geometry, Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9213>

Julai/Juli 1-5, 2012: 9th AIMS conference on Dynamical Systems, Differential Equations and Applications, Orlando, Florida. <http://www.aims sciences.org>

Julai 9-11, 2012: [SIAM Conference on Financial Mathematics and Engineering \(FM12\)](http://www.siam.org/meetings/fm12/). Hyatt Regency Minneapolis, Minneapolis, Minnesota, USA

Julai 23-27, 2012: 6<sup>th</sup> International Conf. on Automatic Differentiation (AD2012). Fort Collins, CO, USA . <http://www.autodiff.org/ad12/>

Julai 30-Ogos/Augustus 11, 2012: Workshop and Conference on Holomorphic Curves and Low-Dimensional Topology, Stanford University, Palo Alto, California <http://www.math.umn.edu/~akhmedov/Stanford2012>

Oktober 2-4, 2012 SIAM Conf. on Maths for Industry: Challenges and Frontiers (MI12) , The Curtis, A Doubletree by Hilton, Denver, Colorado <http://www.siam.org/meetings/mi12/>

Dis/Des 17-21, 2012: International Conference on the Theory, Methods and Applications of Nonlinear Equations, Department of Mathematics, Texas A&M University-Kingsville, Kingsville, Texas. [http://www.tamuk.edu/artsci/math/conference\\_2012/about.html](http://www.tamuk.edu/artsci/math/conference_2012/about.html)

## 2013

Januari 30 - Februari 2, 2013: Harvard, Cambridge, USA

- (1) International Conference on Communications and Information Technology (CIT '13)
- (2) International Conference on Theoretical and Applied Mechanics (TAM '13)
- (3) International Conference on Mathematical, Computational and Statistical Sciences (MCSS '13)
- (4) International Conference on Applied Mathematics, Simulation, Modelling (ASM '13)
- (5) International Conference on Education and Educational Technologies (EET '13)

Mei 19--23, 2013: [SIAM Conference on Applications of Dynamical Systems \(DS13\)](#) - Snowbird Ski and Summer Resort, Snowbird, Utah

Julai /Juli 8--10, 2013: [SIAM Conference on Control and Its Applications \(CT13\)](#) - Town and Country Resort and Convention Center, San Diego, California.

## *Bengkel/kursus pendek 2012*

Januari 9--13, 2012: [AIM Workshop: Mapping theory in metric spaces](#) - American Institute of Mathematics, Palo Alto, California. <http://aimath.org/ARCC/workshops/mappingmetric.html>

Januari 23--27, 2012: [AIM Workshop: Set theory and  \$\mathcal{S}C^\*\$ -algebras](#) - American Institute of Mathematics, Palo Alto, California. <http://aimath.org/ARCC/workshops/settheorycstar.html>

Februari 13--17, 2012: [ICERM Workshop: Complex and p-adic Dynamics](#) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-s12/workshop-1.php>.

Februari 20--24, 2012: [AIM Workshop: Stochastic dynamics of small networks of neurons](#) - American Institute of Mathematics, Palo Alto, California. <http://www.aimath.org/ARCC/workshops/neuronnetwork.html>

Februari 27—Mac/Maret 2, 2012: [IMA Workshop: Network Links: Connecting Social, Communication and Biological Network Analysis](#) - Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. <http://www.ima.umn.edu/2011-2012/W2.27-3.2.12/>

Februari 27--Mac 2, 2012: Workshop on [Nonlocal PDEs, Variational Problems and their Applications](#) - Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. <http://www.ipam.ucla.edu/programs/pde2012/>

Mac/Maret 12—Jun/Juni 15, 2012: [Computational Methods in High Energy Density Plasmas](#) - Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. <http://www.ipam.ucla.edu/programs/pl2012/>.

Mac 12--16, 2012: [AIM Workshop: Classifying fusion categories](#) - American Institute of Mathematics, Palo Alto, California. <http://aimath.org/ARCC/workshops/fusioncat.html>

Mac 12--16, 2012: [ICERM Workshop: Global Arithmetic Dynamics](#) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-s12/workshop-2.php>

Mac 26--30, 2012: [AIM Workshop: Cohomological methods in abelian varieties](#) - American Institute of Mathematics, Palo Alto, California. <http://www.aimath.org/ARCC/workshops/cohomabelian.html>

Mac 26--30 (NEW DATE), 2012: [IMA Workshop: Machine Learning: Theory and Computation](#) - Institute for Mathematics and its Applications (IMA), University of Minnesota, Minneapolis, Minnesota. <http://www.ima.umn.edu/2011-2012/W3.26-30.12/>

Mac 26--30, 2012: [Statistical Mechanics and Conformal Invariance](#) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm580>

Mac 30--31, 2012: [Information and Econometrics of Networks](#) - American University, Washington, District of Columbia. <http://www.american.edu/cas/economics/info-metrics/workshop/workshop-2012-spring.cfm>

April 2--6, 2012: [AIM Workshop: Vector equilibrium problems and their applications to random matrix models](#) - American Institute of Mathematics, Palo Alto, California. <http://aimath.org/ARCC/workshops/vectorequilib.html>

April 16--20, 2012: [ICERM Workshop: Moduli Spaces Associated to Dynamical Systems](#) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-s12/workshop-3.php>

Mei 4--10, 2012: [Annual Spring Institute on Noncommutative Geometry and Operator Algebras](#) - Vanderbilt University, Nashville, Tennessee. <http://www.math.vanderbilt.edu/~ncgoa12/>

- Mei 20-Jun/Juni 2, 2012: [The UGA VIGRE Algebraic Geometry Summer School and conference](http://www.math.uga.edu/~dkrashen/agssp/index.html) - University of Georgia, Athens, Georgia. <http://www.math.uga.edu/~dkrashen/agssp/index.html>
- Mei 21--25, 2012: [AIM Workshop: Contact topology in higher dimensions](http://www.aimath.org/ARCC/workshops/contacttop.html) - American Institute of Mathematics, Palo Alto, California. <http://www.aimath.org/ARCC/workshops/contacttop.html>
- Jun/Juni 11--22, 2012: [Mathematical Modeling on Ecology and Epidemiology](http://math.uwyo.edu/rmmc/2012) - University of Wyoming, Laramie, Wyoming. <http://math.uwyo.edu/rmmc/2012>
- Jun 18--22, 2012: [AIM Workshop: Dynamics of the Weil-Petersson geodesic flow](http://www.aimath.org/ARCC/workshops/weilpetersson.html) - American Institute of Mathematics, Palo Alto, California. <http://www.aimath.org/ARCC/workshops/weilpetersson.html>
- Jun 18--29, 2012: [Noncommutative Algebraic Geometry](http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9213) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9213>
- Jun 18--Ogos/Augustus 10, 2012: [Summer@ICERM: Geometry and Dynamics](http://icerm.brown.edu/summerug) - Institute for Computational and Experimental Research in Mathematics (ICERM), 121 South Main Street, Providence, Rhode Island. <http://icerm.brown.edu/summerug>
- Jun 19--24, 2012: [FRG Workshop and Conference on Characters, Liftings, and Types](http://www.american.edu/cas/FRG2012/) - American University, Washington, District of Columbia. <http://www.american.edu/cas/FRG2012/>
- Julai/Jul 2--20, 2012: [RTG Summer School on Inverse Problems & Partial Differential Equations](http://www.math.washington.edu/ipde/summer/) - University of Washington, Seattle, Washington. <http://www.math.washington.edu/ipde/summer/>
- Julai 9--20, 2012: [Mathematical General Relativity](http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9228) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm9228>
- Julai 9--27, 2012: [Graduate Summer School: Deep Learning, Feature Learning](http://www.ipam.ucla.edu/programs/gss2012/) - Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. <http://www.ipam.ucla.edu/programs/gss2012/>
- Julai 23--Ogos/Augustus 3, 2012: [Model Theory](http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm8971) - Mathematical Sciences Research Institute, Berkeley, Calif <http://www.msri.org/web/msri/scientific/workshops/summer-graduate-workshops/show/-/event/Wm8971>
- Julai 27--Ogos 5, 2012: [Summer School and Workshop on Cohomology and Support in Representation Theory and Related Topics](http://www.math.washington.edu/~pischool/) - University of Washington, Seattle, Washington. <http://www.math.washington.edu/~pischool/>
- Julai 30--Ogos 11, 2012: [Workshop and Conference on Holomorphic Curves and Low-Dimensional Topology](http://www.math.umn.edu/~akhmedov/Stanford2012) - Stanford University, Palo Alto, Californ. <http://www.math.umn.edu/~akhmedov/Stanford2012>
- Ogos/Augustus 6--10, 2012: [ICERM Topical Workshop: Bridging Scales in Computational Polymer Chemistry](http://icerm.brown.edu/tw12-4-bscpc) - Institute for Computational and Experimental Research in Mathematics (ICERM), Providence, Rhode Island <http://icerm.brown.edu/tw12-4-bscpc>
- Ogos 20--24, 2012: [AIM Workshop: Invariants in convex geometry and Banach space theory](http://www.aimath.org/ARCC/workshops/convexbanach.html) - American Institute of Mathematics, Palo Alto, California. <http://www.aimath.org/ARCC/workshops/convexbanach.html>
- Ogos 20--Dis/Des 21, 2012: [Cluster Algebras Program](http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm144) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm144>
- Ogos 22--24, 2012: [Connections for Women: Discrete Lattice Models in Mathematics, Physics, and Computing](http://www.msri.org/web/msri/scientific/workshops/show/-/event/Wm577) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/show/-/event/Wm577>
- Ogos 27--September 7, 2012: [Joint Introductory Workshop: Cluster Algebras and Commutative Algebra](http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm557) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm557>
- September 5--7, 2012: [ICERM Semester Program: Computational Challenges in Probability](http://icerm.brown.edu/sp-f12) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-f12>
- September 10--December 14, 2012: [Materials Defects: Mathematics, Computation and Engineering](http://www.ipam.ucla.edu/programs/md2012/) - Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. <http://www.ipam.ucla.edu/programs/md2012/>
- September 17--21, 2012: [ICERM Workshop: Bayesian Nonparametrics](http://icerm.brown.edu/sp-f12-w1) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-f12-w1>
- Oktober 8--12, 2012: [ICERM Workshop: Uncertainty Quantification](http://icerm.brown.edu/sp-f12-w2) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-f12-w2>
- Oktober 29--November 2, 2012: [ICERM Workshop: Monte Carlo Methods in the Physical and Biological Sciences](http://icerm.brown.edu/sp-f12-w3) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-f12-w3>

**2013**

- Januari 14--Mei 24, 2013: [Noncommutative Algebraic Geometry and Representation Theory](http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm145) - Mathematical Sciences Research Institute, Berkeley, California.  
<http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm145>
- Januari 28--Februari 1, 2013: [Introductory Workshop: Noncommutative Algebraic Geometry and Representation Theory](http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9062) - Mathematical Sciences Research Institute, Berkeley, California  
<http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9062>
- Januari 28--Mei 3, 2013: [ICERM Semester Program: Automorphic Forms, Combinatorial Representation Theory and Multiple Dirichlet Series](http://icerm.brown.edu/sp-s13) - ICERM, Providence, Rhode Island. <http://icerm.brown.edu/sp-s13>
- Mac/Maret 11--14, 2013: [Interactions Between Analysis and Geometry](http://www.ipam.ucla.edu/programs/iag2013/) - Institute for Pure and Applied Mathematics (IPAM), UCLA, Los Angeles, California. <http://www.ipam.ucla.edu/programs/iag2013/>
- April 8--12, 2013: [Interactions between Noncommutative Algebra, Representation Theory, and Algebraic Geometry](http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9063) - Mathematical Sciences Research Institute, Berkeley, California.  
<http://www.msri.org/web/msri/scientific/workshops/all-workshops/show/-/event/Wm9063>
- Ogos 19--Dis 20, 2013: [Mathematical General Relativity](http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm8946) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm8946>
- Ogos 19--Dis 20, 2013: [Optimal Transport: Geometry and Dynamics](http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm8952) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm8952>
- Ogos 20--Mei 24, 2013: [Commutative Algebra Program](http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm142) - Mathematical Sciences Research Institute, Berkeley, California. <http://www.msri.org/web/msri/scientific/programs/show/-/event/Pm142>

**Kanada**

- Mei, 21-24, 2012: World Congress on Information Technology 2012 (WCIT2012), Montreal. WCIT Montreal Inc  
<http://www.wcit2012.org/>
- Jun 10-12, 2012: World Congress on Internet Security (WorldCIS-2012), Guelph, Ontario. Infonomics Society :  
<http://www.worldcis.org>
- Jun 10-15, 2012 International Conference on Communications 2012 (ICC 2012), Ottawa. IEEE Communications Society, and IEEE Ottawa Section. <http://www.ieee-icc.org/2012>
- Julai/Jul 2-6, 2012: 12th International Conference on p-Adic Functional Analysis.. University of Manitoba, Winnipeg, Canada. <http://www.physics.umanitoba.ca/~khodr/p-Adic-2012/>

**Asia Barat/Timur Tengah****Amiriyah Arab Bersatu**

- Jan 7-8, 2012: International Conference on Applied Mathematics and Pharmaceutical Sciences (ICAMPS'2012) Dubai, Planetary Scientific Research Centre. <http://psrcentre.org/listing.php?subcid=38&mode=detail>
- Mac/Maret 11-14, 2012: Fourth International Conference on Mathematical Sciences, ICM2012.. UAE University, Al-Ain, United Arab Emirates <http://icm.uaeu.ac.ae>
- Mac 24-25, 2012: International Conference on Management, Applied and Social Sciences (ICMASS'2012), Dubai. <http://www.psrcentre.org>
- Mac 25-26, 2012: International Conference on Information Technology, System & Management (ICITSM 2012). Abu Dubai, United Arab Emirates <http://www.icitsm.com/>

**Iran**

- Mei 10-12, 2012: International Conference on Functional Equations and Geometric Functions and Applications (ICFGA 2012).. Department of Mathematics, Payame Noor University, Tabriz, Iran.  
<http://www.icfga2012pnu.ir/>

**Iraq**

- April 13-15, 2012: 3rd International Visible Conference on New Trends in Education, Erbil, Kurdistan Region.  
<http://conf.ishik.ac/nte/Home.aspx>
- Julai/Jul 1--16, 2012: [Special Case for Interpolation by Using Bézier Curve Numerically](http://www.al-muthana.edu.iq/) - Al-Muthana University, College of Science, Department of Mathematics & Computer Applications, Muthana, Iraq.

Mel-e: [mustaffa8@hotmail.com](mailto:mustaffa8@hotmail.com)

## Lebanon

Jun/Juni 26-29, 2012: Word Congress on the Square of Opposition III. Beirut, Lebanon. American University of Beirut. <http://www.square-of-opposition.org/enter3.html>

## Turki

April 19—Mei 2, 2012: 4th International Interdisciplinary Chaos Symposium on "Chaos and Complex Systems", Antalya, Turkey. <http://www.ccs2012.org/content.asp?c=homepage>

Mei 17-19, 2012: International Conference on "Applied Mathematics and Approximation Theory 2012", TOBB University of Economics and Technology, Ankara, Turkey. <http://amat2012.etu.edu.tr/>

Mei 17--19, 2012: [International Conference on "Applied Mathematics and Approximation Theory 2012"](#) - TOBB University of Economics and Technology, Ankara, Turkey. <http://amat2012.etu.edu.tr/>

Jun 20-24, 2012: international conference on applied analysis and algebra (ICAAA2012), Istanbul. <http://www.ica12.yildiz.edu.tr/>

September 4--9, 2012: [MADEA 2012 International Conference on Mathematical Analysis, Differential Equations and Their Applications](#) - Mersin University, Mersin, Turkey. [mkucukaslan@mersin.edu.tr](mailto:mkucukaslan@mersin.edu.tr) ; [mkkaslan@gmail.com](mailto:mkkaslan@gmail.com); <http://madea2012.mersin.edu.tr/> Bahasa: Inggris, Rusia Turki

Okt 3-6, 2012: International Conference on Applied and Computational Mathematics (ICACM). Middle East Technical University (METU), Ankara, Turkey <http://www.iam.metu.edu.tr/icacm/>

Okt 11-13, 2012: 8th International Symposium of Statistics, Eskisehir, Turkey. Anjuran Anadolu University. <http://igs2012.anadolu.edu.tr/index.php?lang=en>

## Bengkel dsb.:

Oktober 1, 2012--April 30, 2013: [Semester on Curves, Codes, Cryptography](#) - Sabanci University, Istanbul, Turkey. <http://sccc.sabanciuniv.edu>

## Asia Tengah

### Ukrain

Mei 28 — Jun 3, 2012: International Conference "Theory of Approximation of Functions and its Applications.. Kamianets-Podilsky Ivan Ohienko National University, Kamianets-Podilsky, Ukraine <http://www.imath.kiev.ua/~funct/stepconf2012/en/>

Ogos/Augustus 20-24, 2012: Spectral Theory and Differential Equations.. B. Verkin Institute for Low Temperature Physics & Engineering, V. Karazin Kharkiv National University, Kharkiv, Ukraine <http://www.ilt.kharkov.ua/Marchenko2012>

### Kroatia

April 23--27, 2012: [Spring School in Probability](#) - Inter-University Center, Dubrovnik, Croatia. <http://web.math.hr/ssp-iuc>

## Asia Selatan/Sub-Benua India

### Banglasesh

Mei 18, 2012: International Conference on Informatics, Electronics & Vision 2012 (ICIEV12), Dhaka. <http://aa.binbd.com/ICIEV/index.html>

### Hindia/India

Jan 2-4, 2012: The Second International Conference on Computer Science and Information Technology (CCSIT-2012), Bangalore. AIRCC, <http://coneco2009.com/ccsit2012/ccsit.html>

- Jan 2-4, 2012: The Third International Conference on Network & Communications Security (NCS - 3.0), Bangalore. AIRCC, <http://coneco2009.com/NCS2011/index.html>
- Jan 5-6, 2012: International Conference on Intuitive Systems and Solutions5 Mumbai. Thadomal Shahani Engineering College, <http://www.iciss2012.org>
- Jan 6-8, 2012: International Conference on Advances in Computing and Management ICACM 2012, Pune, Maharashtra. Pad.Dr.D.Y.Patil Institute Of MCA,Akurdi,Pune, : <http://www.dypimca.org/upcoming-events.html>
- Jan 8-9, 2012: international joint conference on information and communication technology, Bhubaneswar, Orissa. IRNet, India, <http://www.interscience.ac.in/IJcICT2012/ijcict2012.html>
- Jan 10-12, 2012: 2012 Second International Conference on Computer Communication and Informatics, Coimbatore, Tamilnadu. SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY & IEEE Madras Section, <http://siet.ac.in/iccci>
- 15 Jan 2012: 3rd International Conference on Computer Science and Information Technology (CSIT 2012), Guwahati, Assam. IRNet (India), Bhubaneswar, <http://www.interscience.ac.in/Guwahati/CSIT/csit.html>
- 27-31 Jan 2012: International Conference on Computer Applications, Pondicherry, Pondicherry. Techno Forum Group, <http://www.icca.org.in>
- 29 Jan 2012: International Conference on Cloud Computing (ICCC- 2012), Bangalore. Interscience Research Network (India), Bhubaneswar, <http://www.interscience.ac.in/ICCC/index.html>
- 2-3 Feb 2012: International Conference on Advances in Computer Science and Electronics Engineering (ICACSEE- 2012), New Delhi, <http://icacsee.uacee.org>
- 2 Feb 2012: 8th International Conference on Distributed Computing and Internet Technology, Bhubaneswar, Orissa. KIIT University, <http://www.icdcit.ac.in>
- Feb 2012: International Conference on Computer Science and Engineering (CSE 2012), Nagpur, Maharastra. Interscience Research Network (India), Bhubaneswar, <http://www.interscience.ac.in/Nagpur/ICCSE/index.html>
- 4 Feb 2012: International Conference ON Artificial Intelligence and Soft Computing (ICAISC 2012), Nagpur, Maharastra. IRNet (India), Bhubaneswar, <http://www.interscience.ac.in/Nagpur/ICAISC/icaisc.html>
- 11-12 Feb 2012: Third International Conference on Computational Intelligence Application, Nashik, Maharastra. Sandip Institute of Technology & Research Centre, Nashik, <http://www.sandipfoundation.org/sitrc/academics/ICCIA/confHome.html>
- 22-24 Feb 2012: International conference on Computing, Communication and Applications (ICCCA 2012) Dindigul, Tamilnadu. P.S.N.A. College of Engineering and Technology, Dindigul, <http://www.psnacet.edu.in/iccca2012>
- 25 Feb 2012: International Conference on Computer Science and Information Technology (CSIT 2012), Pune, Maharastra. Interscience Research Network, India, <http://www.interscience.ac.in/Pune/ICCSIT/CSIT.html>
- 25-26 Feb 2012: 4th International Conference of Management and Behavioural Sciences, Jodhpur, Rajasthan. Society of Management and Behavioural Sciences (SMBS), <http://smbs.in/conferences.html>
- 25 Feb 2012: 2nd International Conference on Computer, Communication, Control and Information Technology, Hooghly, West Bengal. Academy of Technology <http://aot.edu.in/c3it/home>
- 2 Mac/Maret 2012: International Conference on Computer Science and Information Technology, Bhopal, Madhya Pradesh. Interscience Research Network, India, <http://www.interscience.ac.in/Bhopal/CSIT/CSIT.html>
- 9 Mac 2012: International Conference on Computer Science and Informatics, Hyderabad. Interscience Research Network, India, <http://www.interscience.ac.in/Hyderabad/ICCSI/iccsi.html>
- 15-17 Mac 2012: 1st International Conference on Recent Advances in Information Technology (RAIT-2012), Dhanbad, Jharkhand. Indian School of Mines, <http://ismdhanbad.ac.in/noticeboard/ conference/ rait2012/index.html>
- 16-18 Mac 2012: International Conference on Mathematical Modelling and Scientific Computation 2012, Dindigul, Tamil Nadu. UGC-SAP (DRS-II), <http://www.mathgru.com/>
- 17-19 Mac 2012: International Conference on Network & Communication Technology – ICNCT 2012, Pondicherry, Pondicherry. TCET and gopalax, <http://ijescs.com>
- 21-23 Mac 2012: International Conference on Recent Advances and Future Trends in Information Technology, Patiala, Punjab. Department of Computer Science, Punjabi University, Patiala, <http://www.iraft2012.org>
- 22-23 Mac 2012: International Conference on Customer Satisfaction to Achieve Customer Loyalty, Pune, Maharashtra. MIT COE, CMSR, [http://www.mitcmsr.com/fdp/Pamphlet\\_1.pdf](http://www.mitcmsr.com/fdp/Pamphlet_1.pdf)

- 10-11 April 2012: International Conference on Modelling, Optimisation and Computing (ICMOC 2012), Kumarakoil, Kanyakumari District, Tamil Nadu. Department of Mechanical Engineering, Noorul Islam Centre for Higher Education, <http://niumech.com>
- 21-22 April 2012: International Conference on Recent Trends and Advancements in Computing Technologies - 2012 ( ICRTACT-2012), Shirdi ( Saibaba ), Maharashtra. Institution of Techno Savvies, India, <http://itsindia.9k.com/Index.htm>
- 25-27 April 2012: International Conference on Recent Advances in Computing and Software Systems (RACSS 2012), Chennai, Tamil Nadu. Department of Computer Science and Engineering, <http://www.ssn.edu.in/racss2012.htm>
- 28-29 April 2012: 2nd International Conference on Applied Physics and Mathematics (ICAPM 2012), Chennai. <http://www.icapm.org/cfp.htm>
- 5-7 Mei 2012: The Fourth International workshop on Grid Computing (GridCom-2012), Delhi. AIRCC, <http://airccse.org/gridcom2012/gridcom2012.html>
- 25-27 Mei 2012: Second International Conference on Computer Science, Engineering & Applications ( ICCSEA-2012), Delhi. AIRCC, <http://coneco2009.com/iccsea-2012/index.html>
- 25-27 Mei 2012: First International Conference on Soft Computing, Artificial Intelligence and Applications (SCAI-2012), Delhi, AIRCC. <http://coneco2009.com/SCAI2012/index.html>
- 13-14 Julai/Juli 2012: International Conference on Computing and Information Technology, tirupati, Andhra Pradesh. WAIRCO, <http://www.worldairco.org/Callforpapers.html>
- 15-17 Julai 2012: The Fourth International conference on Networks & Communications (NeCoM-2012), Chennai. AIRCC, <http://coneco2009.com/necom2012/necom2012.html>
- 15-17 Julai 2012 The Second International Conference on Advances in Computing and Information Technology (ACITY 2012), Chennai. AIRCC, <http://coneco2009.com/acit2012/index.html>
- 26-28 Julai 2012 Third International Conference on Computing, Communication and Networking Technologies ICCCNT2012, Karur, Tamilnadu. IEEE Computer Society, : <http://icccnt.chettinadtech.ac.in>
- 26-28 Julai 2012 International Conference on Advances in Cloud Computing, Bangalore, Karnataka. Computer Society of India, <http://www.acc-2012.org>
- 3-5 Ogos/Augustus 2012 International Conference on Advances in Computing, Communications and Informatics (ICACCI-2012), Chennai, <http://www.icacci-conference.org>
- 10-11 Ogos/Augustus 2012: First International ICST Conference on Eco-Technology and Green computing - GreenTech 2012, Chennai, European Alliance for Innovation. <http://greentech.icst.org/show/home>
- 10-12 Ogos 2012: Sixth International Conference on Information Processing(ICIP 2012), Bangalore India, Karnataka. The Society of Information Processing, (SIP), <http://www.icipbangalore.org>
- 16-18 Ogos 2012: international conference on æœfluid mechanics, graph theory and, differential geometry, Department of Mathematics Christ University, Bangalore, Karnataka, Department of Mathematics Christ University. <http://www.christuniversity.in/Mathematics/deptresources.php?division=Deanery%20of%20Sciences&dept=12&sid=144#ac>
- 6-8 Dis 2012: Second IEEE International Conference on Parallel, Distributed and Grid Computing Solan, Himachal Pradesh. IEEE, <http://www.juit.ac.in/pdgc-2012/index1.php>
- 27- 30 December 2012 Eighth International Triennial Calcutta Symposium on Probability and Statistics, Kolkata, Calcutta Statistical Association AND Department of Statistics, University of Calcutta. <http://triennial.calcuttastatisticalassociation.org/sympBrochure.php>
- 30-31 Dis/Des 2012: 24th International Conference on Computational Linguistics, Mumbai, IIT Bombay. <http://www.coling2012-iitb.org>

## 2013

- April 13--14, 2013: [3rd IIMA International Conference on Advanced Data Analysis, Business Analytics and Intelligence](http://www.iimahd.ernet.in/icadabai2013/) - Indian Institute of Management, Ahmedabad, India. <http://www.iimahd.ernet.in/icadabai2013/>

## Nepal

- Feb 27-28, 2012: 4th International Conference on Wireless Information Networks and Business Information System (WINBIS 2012), Hotel Marshyandi, Kathmandu, Nepal. <http://www.win-bis.com>

## Pakistan

Feb20, 2012: International Conference on Islamic Business, Islamabad, Riphah Center of Islamic Business,  
<http://www.icib-riu.org>

## Asia Timur

### Jepun/Jepang

Jan. 17-19, 2012: [ACM-SIAM Symposium on Discrete Algorithms \(SODA12\)](#). The Westin Miyako, Kyoto, Japan  
 Julai 30 — Ogos 3, 2012: The 24th International Conference on Formal Power Series and Algebraic Combinatorics (FPSAC.12).. Nagoya University, Nagoya, Japan. <http://www.math.nagoya-u.ac.jp/fpsac12>  
 Julai 30—3 Ogos, 2012: Variational Methods for Evolving Objects.. Room 3-309, Faculty of Science Building #3, Hokkaido University, Sapporo, Japan. [cri@math.sci.hokudai.ac.jp](mailto:cri@math.sci.hokudai.ac.jp) for further inquiries;  
[http://www.math.sci.hokudai.ac.jp/sympo/120730/index\\_en.html](http://www.math.sci.hokudai.ac.jp/sympo/120730/index_en.html)

### Kursus/Bengkel

Jan. 16, 2012: [Analytic Algorithmics and Combinatorics \(ANALCO12\)](#). The Westin Miyako, Kyoto, Japan  
[Algorithm Engineering and Experiments \(ALENEX12\)](#). The Westin Miyako, Kyoto, Japan  
 March 6--10, 2012: [Anomalous Statistics, Generalized Entropies, and Information Geometry](#) - Nara Women's University, Nara City. <http://sites.google.com/site/next2012nara/home>  
 Julai/Juli 17--27, 2012: [The 5th Mathematical Society of Japan Seasonal Institute, 2012 International Summer School and Conference on Schubert Calculus](#) - Osaka City University, Osaka, Japan.  
<http://mathsoc.jp/meeting/msjsi12/>  
 Julai 30--August 3, 2012: [Variational Methods for Evolving Objects](#) - Room 3-309, Faculty of Science Building #3, Hokkaido University, Sapporo, Japan. [http://www.math.sci.hokudai.ac.jp/sympo/120730/index\\_en.html](http://www.math.sci.hokudai.ac.jp/sympo/120730/index_en.html)

### Tiongkok/China

Jan 7-8, 2012: International Conference on Information, Computing and Telecommunications Harbin, China. Harbin University of Science and Technology and International Science and Engineering Research Center,  
<http://www.icict.net/main/>  
 Mac/Maret 14-16, 2012: IAENG International Conference on Operations Research 2012.. Royal Garden Hotel, Kowloon, Hong Kong. <http://www.iaeng.org/IMECS2012/ICOR2012.html>  
 April 8-9, 2012: International Conference on Information Systems, Engineering & Management Science (ICISEMS 2012).. Hong Kong <http://www.icisems.com/>  
 Julai/Juli 24-27, 2012: 2012 International Conference on Engineering and Applied Science (2012-ICEAS), Beijing.  
<http://www.iceas2012.org>

### 2013

Jun 28--30, 2013: [First International Conference on Smarandache Multispace and Multistructure](#) - Academy of Mathematics and Systems, Chinese Academy of Sciences, Beijing 100190, People's Republic of China.  
<http://fs.gallup.unm.edu/multispace.htm>

## Australia dan N Zealandia/Zealandia Baru

### Australia

Feb 13-17, 2012: The 10th International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing (MCQMC 2012), The University of New South Wales, Sydney, NSW, Australia.  
<http://www.mcqmc2012.unsw.edu.au/>  
 Mac/Maret 11, 2012: ICMCSSE 2012 : International Conference on Mathematical, Computational and Statistical Sciences, and Engineering, Perth. <http://www.waset.org/conferences/2012/perth/icmcsse/>  
 Julai/Juli 9-13, 2012: 20th International Symposium on Mathematical Theory of Networks and Systems, Melbourne.  
<http://www.mtns2012.com.au>

Dis/Des 10-14, 2012: 36ACCMCC-The 36th Australasian Conference on Combinatorial Mathematics and Combinatorial Computing.. University of New South Wales, Sydney, Australia. <http://conferences.science.unsw.edu.au/36accmcc/>

## NZ

Feb 13-17, 2012: Conference and MAGMA Workshop on "Symmetries of Discrete Objects" Rydges Lakeland Resort Hotel, Queenstown, New Zealand. <http://www.math.auckland.ac.nz/~conder/SODO-2012/>

## Eropah

### Austria

Dis/Des 16-22, 2012: Commutative rings, Integer-valued polynomials and Polynomial functions.. Graz University of Technology, Graz, Austria. Contact: e-mail: [commring@tugraz.at](mailto:commring@tugraz.at); <http://integer-valued.org/conf2012>

#### *Bengkel dsb.:*

Mei 30—Jun/Juni 2, 2012: [12th Viennese Workshop on Optimal Control, Dynamic Games and Nonlinear Dynamics](http://orcos.tuwien.ac.at/events/ocdgdnd_2012/#c29435) - Vienna University of Technology, Vienna, Austria. [http://orcos.tuwien.ac.at/events/ocdgdnd\\_2012/#c29435](http://orcos.tuwien.ac.at/events/ocdgdnd_2012/#c29435)

Jun/Juni 3--30, 2012: [Clay Mathematics Institute 2012 Summer School "The Resolution of Singular Algebraic Varieties"](http://www.claymath.org/summerschool) - Obergurgl, Tyrolean Alps, Austria. <http://www.claymath.org/summerschool>

Julai/Juli 4--6, 2012: [Workshop: Statistical Inference in Complex/High-Dimensional Problems](http://www.univie.ac.at/inference2012/) - University of Vienna, Vienna, Austria. <http://www.univie.ac.at/inference2012/>

Dis/Des 16--22, 2012: [Commutative rings, Integer-valued polynomials and Polynomial functions](http://integer-valued.org/conf2012/) - Graz University of Technology, Graz, Austria. <http://integer-valued.org/conf2012/>

### Belanda

Julai/juli 23- Ogos/Augustus 3, 2012: [Poisson 2012: Poisson Geometry in Mathematics and Physics \(Summer School and Conference\)](http://www.uu.nl/poisson2012) - Utrecht University, Utrecht, The Netherlands. <http://www.uu.nl/poisson2012>

### Belgium

Mei 6-10, 2012: 10th International Conference on Formal Concept Analysis, Leuven, Belgium. <http://www.econ.kuleuven.be/ICFCA>

Mei 30--Jun 6, 2012: [Spring School in Nonlinear Partial Differential Equations](http://pde2012.ulb.ac.be/) - Université Libre de Bruxelles, Brussels, Belgium. <http://pde2012.ulb.ac.be/>

### Bulgaria

Jun/Juni 6—9, 2012.: EUROMECH Colloquium 535 Similarity and symmetry methods in Solid Mechanics. Varna, Bulgaria <http://roquefort.nancy-universite.fr/CONGRES/euromec2012.php>

Jun/Juni 8-13, 2012: 38th International Conference "Applications of Mathematics in Engineering and Economics" AMEE'12. Leisure House of the Technical University of Sofia, Sozopol, Bulgaria. <http://www.tu-sofia.bg/ENG/fpmi/amee/>

Jun/Juni 8—13, 2012: XIVth International Conference on Geometry, Integrability and Quantization. Sts. Constantine and Elena resort (near Varna, Bulgaria). <http://www.bio21.bas.bg/conference/>

Jun/Juni 17—22, 2012: BIOMATH 2012: International Conference on Mathematical Methods and Models in Biosciences.. Bulgarian Academy of Sciences, Sofia, Bulgaria. <http://www.biomath.bg/2012/>

### Czec/Ceska (Republik)

April 22-28, 2012. Variational Analysis and Its Applications, Paseky nad Jizerou, Czech Republic e-mail: [pasejune@karlin.mff.cuni.cz](mailto:pasejune@karlin.mff.cuni.cz); <http://www.karlin.mff.cuni.cz/katedry/kma/ss/apr12/>

Jun 25-29, 2012: 3rd European Seminar on Computing (ESCO 2012).. Pilsen, Czech Republic.  
<http://esco2012.femhub.com>

### **Bengkel dsb.:**

Julai/Jul 9--13, 2012: [EVEQ 2012: International Summer School on Evolution Equations](http://tinyurl.com/eveq-2012-prague) - Prague, Czech Republic.  
<http://tinyurl.com/eveq-2012-prague>

September 12--14, 2012: [Algebra Geometry and Mathematical Physics - 8th workshop - Brno 2012](http://agmp.eu/brno12/general.php) - Faculty of mechanical engineering, Brno University of Technology, Czech Republic. <http://agmp.eu/brno12/general.php>

### **Denmark**

Ogos/Augustus 6-11, 2012: XVII International Congress on Mathematical Physics (ICMP17). Aalborg Kongress og Kultur Center, Europa Plads 4, 9000 Aalborg, Denmark <http://www.icmp12.com/>

### **Estonia**

Julai/Jul 10-14, 2012: 3Quantum: Algebra, Geometry, Information.. Tallinn University of Technology, Tallinn, Estonia. <http://www.agmp.eu/qqq/>

### **Grik**

Jun/Juni 11-14, 2012: 6th Annual International Conference on Mathematics, Statistics and Education (Teaching) Mathematics and Statistics 2012 Athens. Athens Institute for Education and Research  
<http://www.atiner.gr/mathematics.htm>

Jun 12--15, 2012: [5th Chaotic Modeling and Simulation International Conference \(CHAOS2012\)](http://www.ams.org/meetings/calendar/mathcal) - Athens, Greece.  
<http://www.ams.org/meetings/calendar/mathcal>

Mac/Maret 7-9, 2012: 6th International Conference on Communications and Information Technology (CIT '12), Vouliagmeni Beach, Athens, Greece. <http://www.naun.org/conferences/2012/cit/index.html>

Mac/Maret 7-9, 2012: 6th International Conference on Applied Mathematics, Simulation, Modelling (ASM'12), Vouliagmeni Beach, Athens, Greece. <http://www.naun.org/conferences/2012/asm/index.html>

Mac/Maret 7-9, 2012: 3rd Int.Conf. on Theoretical and Applied Mechanics 2012, Vouliagmeni Beach, Athens, Greece. <http://www.naun.org/conferences/2012/tam/>;

3rd International Conference on Fluid Mechanics and Heat & Mass Transfer 2012, Vouliagmeni Beach, Athens, Greece, March 7-9, 2012. <http://www.naun.org/conferences/2012/fluidsheat/>

Julai/Jul 28-30, 2012: 9th International Conference on Applied Financial Economics, Samos Island, Samos Island, Greece. <http://www.ineag.gr/AFE/index.php>

September 19-25, 2012: ICNAAM2012: 3rd Symposium on Semigroups of Linear Operators and Applications.. Kyriotis Hotels and Conference Center, Kos, Greece. [http://www.fih.upt.ro/personal/dan.lemle/conferinte/Lemle\\_Simpozion\\_2012.pdf](http://www.fih.upt.ro/personal/dan.lemle/conferinte/Lemle_Simpozion_2012.pdf)

### **Hungaria/Magyar(ország)**

Julai/Jul 16-18, 2012: , 2012SING8: 8th Spain-Italy-Netherlands Meeting on Game Theory.. Institute of Economics, Hungarian Academy of Sciences and Corvinus University, Budapest, Hungary. <http://sing8.iehas.hu/>

### **Italia**

Mei,20-25, 2012. 7th European Conference on Elliptic and Parabolic Problems, Gaeta, Italy.  
<http://www.math.uzh.ch/gaeta2012>

Jun/Juni 4-8, 2012: BIOCAMP2012 - Mathematical Modeling and Computational Topics in Biosciences. Hotel Lloyd's Baia, Vietri sul Mare, Italy. <http://biocomp.unina.it>; e-mail: [biocomp@unina.it](mailto:biocomp@unina.it)

Julai/Jul 2-6, 2012: Model Theory in Algebra, Analysis and Arithmetic.. Cetraro, Italy.  
<http://php.math.unifi.it/users/cime/>; atau hubungi Carlo Toffalori, [carlo.toffalori\\_at\\_unicam.it](mailto:carlo.toffalori_at_unicam.it)

Julai/Jul 23-27, 2012: 11th Biennial IQSA Meeting - Quantum Structures - Cagliari 2012 Cagliari, Italy. University of Cagliari - Department of Philosophy <http://www.iqsa2012.org>

Sept 13-14, 2012: DEGIT - XVII (Dynamics, Economic Growth and International Trade), Milan.  
<http://www.degit.ifw-kiel.de/activities/conferences>

**2013**

Jan 9-11, 2013: International Conference on Computer Aided Design (CAD '13)

Jan 9-11, 2013: International Conference on Computer Generated Imagery (CGI '13)

**Kursus/Bengkel**

Februari 9-10, 2012: Venice, 7th Annual QUANTITATIVE ASSET and RISK Management Workshop, Venice.

<http://www.quant.it>

March 1--3, 2012: [Trends in Mathematical Analysis](http://www.mate.polimi.it/TMA2012/) - Dipartimento di Matematica "F.Brioschi" Politecnico di Milano, Milan, Italy. <http://www.mate.polimi.it/TMA2012/>.

Mei 28—Jun/Juni 1, 2012: [Workshop on Nonlinear Partial Differential Equations on the occasion of the sixtieth birthday of Patrizia Pucci](http://www.dmi.unipg.it/pucci2012) - Perugia, Italy. : [pucci2012@dm.unipg.it](mailto:pucci2012@dm.unipg.it); <http://www.dmi.unipg.it/pucci2012>

Jun/juni 4--8, 2012: [BIOCOMP2012 - Mathematical Modeling and Computational Topics in Biosciences](http://biocomp.unina.it) - Hotel Lloyd's Baia, Vietri sul Mare, Italy. <http://biocomp.unina.it>

Jun 25--29, 2012: [AIM Workshop: Hypergeometric motives](http://aimath.org/ARCC/workshops/hypermotives.html) - International Centre for Theoretical Physics, Trieste, Italy. <http://aimath.org/ARCC/workshops/hypermotives.html>

Jun 25--30, 2012: [IVth Workshop on Coverings, Selections, and Games in Topology](http://u.cs.biu.ac.il/~tsaban/spmc12) - Department of Mathematics, Seconda Università di Napoli, Caserta, Italy. <http://u.cs.biu.ac.il/~tsaban/spmc12>

Julai/Jul 2--6, 2012: [Model Theory in Algebra, Analysis and Arithmetic](http://php.math.unifi.it/users/cime/) - Cetraro, Italy. <http://php.math.unifi.it/users/cime/>

**Jerman**

Feb 20-24, 2012: Emerging Developments in Real Algebraic Geometry: Positivity, Convexity, NC-Geometry, Optimization Otto-von-Guericke University, Magdeburg, Germany. <http://www.uni-magdeburg.de/ragc/index.html>

Mac/Maret 1-3, 2012: Trends in Mathematical Analysis Dipartimento di Matematica "F.Brioschi" Politecnico di Milano, Milan, Italy <http://www.mate.polimi.it/TMA2012/>

Julai/Jul 1--5, 2013: [International conference on Sampling Theory and Applications 2013](http://www.jacobs-university.de/sampta) - Jacobs University, Bremen, Germany. <http://www.jacobs-university.de/sampta>

**Bengkel dsbnya:**

Feb 20--24, 2012: [Emerging Developments in Real Algebraic Geometry: Positivity, Convexity, NC-Geometry, Optimization](http://www.uni-magdeburg.de/ragc/index.html) - Otto-von-Guericke University, Magdeburg, Germany. <http://www.uni-magdeburg.de/ragc/index.html>.

Julai/Jul 1--7, 2012: [Workshop on geometric structures on manifolds and their applications](http://www.mathematik.uni-marburg.de/~agricola/rausch2012/) - Castle Rauischholzhausen near Marburg, Germany. <http://www.mathematik.uni-marburg.de/~agricola/rausch2012/>

Julai/juli 16--18, 2012: [Recent Developments in Statistical Multiscale Methods](http://www.stochastik.math.uni-goettingen.de/for916/SMM2012) - University of Goettingen, Germany. <http://www.stochastik.math.uni-goettingen.de/for916/SMM2012>

September 17--21, 2012: [Summer School on New Trends in Harmonic Analysis, Fractional Operator Theory, and Image Analysis](http://www-m6.ma.tum.de/Lehrstuhl/Inzell2012) - Inzell, Germany. <http://www-m6.ma.tum.de/Lehrstuhl/Inzell2012>

**Kosovo**

September 3--7, 2012: [1st International Conference on Mathematical Sciences and Applications \(IECMSA\)](http://www.iecmsa.org) - Prishtine University, Prishtine, Kosovo. <http://www.iecmsa.org>.

**Makedonia**

Ogos/Augustus 27-31, 2012. 8th International Symposium on Geometric Function Theory and Applications. Ohrid, Republic of Macedonia. <http://www.uab.ro/gfta-2012/>

**Perancis**

Mei 21-25, 2012: CANT 2012-School and Conference on Combinatorics, Automata and Number Theory,. CIRM-Centre International de Rencontres Mathématiques: International center of Mathematical Meetings, Marseille, France. <http://www.cant.ulg.ac.be/cant2012/index.html>

Jun 7-9, 2012: Quantum invariants of 3-manifolds.. Institut de Recherche Mathématique Avancé, University of Strasbourg, France. <http://www-irma.u-strasbg.fr/article1172.html>

Julai 9-13, 2012: Additive Combinatorics in Paris 2012 - Combinatoire Additive à Paris 2012. Institut Henri Poincaré, Paris, France. <http://caparis2012.wordpress.com/>

September 20-22, 2012. Lie and Klein; the Erlangen program and its impact on mathematics and physics. Institut de Recherche Mathématique Avancé, University of Strasbourg, France. <http://www-irma.u-strasbg.fr/article1173.html>

#### **Bengkel dsb.:**

Mei 21--25, 2012: [CANT 2012-School and Conference on Combinatorics, Automata and Number Theory](http://www.cant.ulg.ac.be/cant2012/index.html) - CIRM-Centre International de Rencontres Mathématiques: International center of Mathematical Meetings, Marseille, France. <http://www.cant.ulg.ac.be/cant2012/index.html>

Jun/Juni 7--9, 2012: [Quantum invariants of 3-manifolds](http://www-irma.u-strasbg.fr/article1172.html) - Institut de Recherche Mathématique Avancé, University of Strasbourg, France. <http://www-irma.u-strasbg.fr/article1172.html>

Jun 11--15, 2012: [Arrangements in Pyrenees: School and Workshop on "Hyperplane arrangements and related topics"](http://lma.univ-pau.fr/equipes/algebre-geometrie/arrangements/) - Université de Pau et des Pays de l'Adour, Pau, France. <http://lma.univ-pau.fr/equipes/algebre-geometrie/arrangements/>

September 20--22, 2012: [Lie and Klein; the Erlangen program and its impact on mathematics and physics](http://www-irma.u-strasbg.fr/article1173.html) - Institut de Recherche Mathématique Avancé, University of Strasbourg, France. <http://www-irma.u-strasbg.fr/article1173.html>

#### **Pertugis/Portugis**

Januari 16--20, 2012: [I Winter School on Stochastic Dynamics and Control in Finance and Economics](http://cemapre.iseg.utl.pt/~sdc2012/) - ISEG, Technical University of Lisbon, Lisbon, Portugal. <http://cemapre.iseg.utl.pt/~sdc2012/>

#### **Polandia/Polska**

Julai 8-11, 2012: Trends in Set Theory. Stefan Banach International Mathematical Center, Warsaw, Poland.. [http://www.impan.pl/~set\\_theory/Conference2012/](http://www.impan.pl/~set_theory/Conference2012/)

#### **Bengkel dsb.:**

Jun/Juni 27--29, 2012: [Low dimensional conformal structures and their groups](http://mat.ug.edu.pl/conformal/) - Institute of Mathematics, Gdansk University, Gdansk, Poland. <http://mat.ug.edu.pl/conformal/>

#### **Romania**

Mei 24-26, 2012: AFASES 2012 - the 14th International Conference Scientific Research and Education in the Air Force, Brasov, Romania. <http://www.afahc.ro/afases/afases.html>

Julai/Jul 2-7, 2012: 24th Conference in Operator Theory.. West University, Timisoara, Romania. <http://www.imar.ro/~ot/>

Julai 9-15, 2012: The 10th International Conference on Fixed Point Theory and its Applications (ICFPTA-2012).. Faculty of Mathematics and Computer Science, Babes, Bolyai University, Cluj-Napoca, Romania. <http://www.cs.ubbcluj.ro/~fptac/>

#### **Rusia**

Jan 30- Feb 4, 2012: Mathematics. Computing. Education. Dubna, Russian Federation Lomonosov Moscow State University <http://www.mce.su/>

Julai 8-15, 2012: International Conference on Wavelets and Applications.. Euler International Mathematical Institute, St. Petersburg, Russia.. e-mail: [conference.wla.2012@gmail.com](mailto:conference.wla.2012@gmail.com); [http:// www. pdmi.ras.ru/EIMI/2012/WLA/index.html](http://www.pdmi.ras.ru/EIMI/2012/WLA/index.html)

#### **Bengkel dsb.:**

Jun/Juni 18--29, 2012: [St. Petersburg School in Probability and Statistical Physics](http://spspsp.chebyshev.spb.ru/) - Chebyshev Laboratory, St. Petersburg State University, Russia. <http://spspsp.chebyshev.spb.ru/>

## Sepanyol

- Jan 23-27, 2012: Recent Trends in Nonlinear Science 2012, Pamplona, Universidad Publica de Navarra, Sepanyol.  
<http://www.dance-net.org/rtns2012/>
- Jun 18-22, 2012: [SIAM Conference on Applied Linear Algebra \(LA12\)](#). Valencia, Spain
- Julai 11-13,, 2012. Third International Conference on Symbolic Computation and Cryptography. International Centre for Mathematical Meetings (CIEM), Castro Urdiales (Cantabria), Spain. <http://scc2012.unican.es/>
- Oktober 1-5, 2012: New trends in Dynamical Systems . Salou, Catalonia, Spain.  
<http://www.gsd.uab.cat/ntds2012/index.php>

## Kursus/Bengkel

- Mei 28--Jun 1, 2012: [Tenth Workshop on Interactions between Dynamical Systems and Partial Differential Equations \(JISD2012\)](#) - School of Mathematics and Statistics, Universitat Politècnica de Catalunya, Barcelona, Spain. <http://www.ma1.upc.edu/reerca/seminaris/JISD2012/indexjisd2012.html>
- Jun/Juli 19--22, 2012: [Financial Engineering Summer School 2012](#) - Madrid Stock Exchange, Madrid, Spain  
<http://fess.afi.es>
- Julai/Juli 4--6, 2012: [Numerical Software: Design, Analysis and Verification](#) - Universidad de Cantabria, Santander, Spain. <http://personales.unican.es/segurajj/numsoft12>
- Julai 9--11, 2012: [Third Workshop on Mathematical Cryptology](#) - International Centre for Mathematical Meetings (CIEM), Castro Urdiales (Cantabria), Spain. <http://wmc2012.unican.es>

## Sweden

- Mei 24-25, 2012: third Linnaeus University Workshop in Stochastic Analysis and Applications, Växjö, Smaland, Sweden. <http://tinyurl.com/7cke8wj>
- Ogos/Augustus 29--September 2, 2012: [Semigroups and Applications](#) - Department of Mathematics, Uppsala University, Uppsala, Sweden. <http://www.math.uu.se/Semi2012/>
- September 5--9, 2012: [Lie Algebras and Applications](#) - Uppsala University, Uppsala, Sweden.  
<http://www.math.uu.se/Lie2012/>

## UK

- April 23—25, 2012: 5TH IMA International Conference on Analytical Approaches to Conflict,. Royal Military Academy, Sandhurst, United Kingdom [http://ima.org.uk/conferences/conferences\\_calendar/influence\\_and\\_conflict.cfm](http://ima.org.uk/conferences/conferences_calendar/influence_and_conflict.cfm)
- Jun 18-23, 2012: Turing Centenary Conference (CiE 2012): How the World Computes.. University of Cambridge, Cambridge, United Kingdom. <http://www.cie2012.eu>
- Julai 4—6, 2012: The 2012 International Conference of Applied and Engineering Mathematics. Imperial College London, London, United Kingdom. <http://www.iaeng.org/WCE2012/ICAEM2012.html>
- Julai/Juli 16—Dis/Des 21, 2012: Topological Dynamics in the Physical and Biological Sciences. Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. <http://www.newton.ac.uk/programmes/TOD/>
- Julai/Juli 23—Ogos/Augustus 17, 2012: Spectral Theory of Relativistic Operators, Isaac Newton Institute for Mathematical Sciences, Cambridge, United Kingdom. <http://www.newton.ac.uk/programmes/SRO/>
- September 3-7, 2012: International Conference on Differential-Difference Equations and Special Functions. University of Patras, Patras, Greece. <http://www.icddesf.upatras.gr>
- 10-12 September , 2012: 3rd IMA Conference on Numerical Linear Algebra and Optimisation.. University of Birmingham, United Kingdom  
[http://www.ima.org.uk/conferences/conferences\\_calendar/numerical\\_linear\\_algebra\\_and\\_optimisation.cfm](http://www.ima.org.uk/conferences/conferences_calendar/numerical_linear_algebra_and_optimisation.cfm)
- Dis/Des 20, 2012: 9th IMA International Conference on Mathematics in Signal Processing.. Austin Court, Birmingham, United Kingdom. [http://www.ima.org.uk/conferences/conferences\\_calendar/mathematics\\_in\\_signal\\_processing.cfm](http://www.ima.org.uk/conferences/conferences_calendar/mathematics_in_signal_processing.cfm)

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TAMAT NAHU DNG BAYAN, TAMAT MANTIK DENGAN MAKNA

TIADA MAKLUMAT 2011

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## HADIAH NOBEL SAINS MATEMATIK 2011

Hadiah Nobel atas nama “Sains Matematik” memang tiada tetapi pemenang Hadiah dalam sains teori terutamanya atas nama “Sains Ekonomi” dan “Fizik” bahkan “Kimia” biasanya boleh dianggap seorang ahli sains matematik (fizik teori atau ekonomi teori).

Pemenang Hadiah Nobel Fizik 2011 dimenangi oleh tiga orang fizikawan uji kaji: Saul Perlmutter, Brian P. Schmidt dan Adam G. Riess "kerana penemuan pengembangan memecut bagi Alam Semesta menerusi cerapan supernova yang jauh" (*“for the discovery of the accelerating expansion of the Universe through observations of distant supernovae”*).

Di dalam Sains Ekonomi, Hadiah Nobel 2011 dimenangi oleh Sargent dan Sims “Kerana penyelidikan empirik mereka tentang sebab dan kesan dalam makroekonomi” (*“for their empirical research on cause and effect in the macroeconomy”*)

Oleh itu, **tiadalah pemenang Hadiah Nobel 2011** dalam sains matematik

## PINGAT FIELD 2010

PINGAT FIELD DICIPTA OLEH KOMUNITI AHLI MATEMATIK TULEN BAGI MENGGANTIKAN HADIAH NOBEL. NAMUN HADIAHNYA AMATLAH KECIL BERBANDING DENGAN NILAI HADIAH NOBEL

Four 2010 Fields Medalists were announced August 19 at the International Congress of Mathematicians in Hyderabad, India: [Cédric Villani](#) of the Henri Poincaré Institute in Paris (de l'Université de Lyon), [Stanislav Smirnov](#) of the Université de Geneva (Section de mathématiques), [Ngô Bao Châu](#) of the University of Paris XI, and [Elon Lindenstrauss](#) of the Hebrew University of Jerusalem.



Prof. Villani



Prof. Smirnov



Prof Chau



Prof. Lindenstrauss

Villani diiktiraf sebahagian besarnya kerana “pentafsiran matematik beliau dengan tajallinya/profaunnya tentang konsep fizik entropi, yang beliau terapkannya untuk menyelesaikan masalah-masalah utama yang diilhami oleh fizik”. Demikiasn mengikut profil beliau di laman sesawan Kongres Antarabangsa Matekawan (KAM, atau International Congress of Mathematicians (ICM) ).

Mengikut sesawang itu lagi, Smirnov, "memberi bukti yang elegan tentang dua buah konjektur asasi dalam fizik statistik yang tercegak-lama” – satu daripadanya berhubung dengan perkolasi dan satu lagi berhubung dengan perkara yang dirujuk sebagai model Ising daripada mekanik statistik , yang ada terapan/aplikasi dalam kemagnetan”— “penemuan simetri yang mengejutkan dalam model-model matematik daripada fenomenon fizik."

Châu (Perancis-Vietnam) disanjung kerana bukti beliau terhadap usulan yang dikenali sebagai Lema Asasi . "Usulan ini ialah matematik tulen yang dalam, dan berkeirlevancean dengan dunia keilmuan, termasuk fizik tenaga-tinggi, sains komputer dan kriptografi,". Demikian kata Peter Constantin, kerusi Jabatan Matematik University of Chicago.

Lindenstrauss, tidaklah berkelebihan dalam beberapa kesempurna-jayaan yang tidak mampan itu sahaja tetapi beliau menang kerana “ hasil-hasil karya beliau berkenaan dengan sukatan ketegaran dalam teori ergodik, dan keterapan perkara ini dalam teori nombor”. Teori ergodik beliau, mengikut profil sarjana ini, membabitkan telatah sistem dinamik.

Sumber : *Scientific American*, August 2010 (Terjemahan Penyut.)

Tulisan tentang karya utama setiap pemenang Pingat Field ini boleh dilihat dalam The Mathematical Work of the 2010 Fields Medalists. *Notices of AMS* , March 2011: 453-468.

## **Pemenang Pingat Field yang dahulu:**

2006: Andrei Akounkov, Grigori Perelman, Terence Tao, Wendelin Werner dan Grigori Perelman (enggan menerimanya)

2002:Laurent Lafforgue dan Vladimir Voevodsky

1998: Richard E. Borcherds, Timothy Gowers, Maxim Kontsevich, Curtis Mamullen. Mangkuk Perak ditawarkan kpd Andrew J. Wiles sebagai penghormatan khas daripada IMU

1994: Jean Bourgain, Pierre-Louis Lions, Jean-Christophe Yoccoz dan Efim Zelmanov

1990: Vladimir Drinfeld, Vaughan F.R. Jones, Shigefumi Mori dan Edward Witten

1986: Simon K. Donaldson, Gerd Faltings, dan Michael H. Freedman

1982: Alain Connes, William P. Thurston dan Shing-Tung Yau

1978: Pierre Rene Deligne, Charles Louis Fefferman, Gregori Alexandrovitch Margulis, dan Daniel G. Quillen

1974: Enrico Bombieri, dan David Bryant Mumford,

1970: Alan Baker, Heisuke Hironaka, Serge Novikov, dan John Griggs Thompson

1966: Michael Francis Atiyah, Paul Joseph Cohen, Alexander Grothendieck, dan Stephenn Smale

1962: Lars Hormander, dan John Willard Milnor

1958: Klaus Friedrich Roth , dan Rene Thom

1954: Kunihiko Kodaira, dan Jean-Pierre Serre

1950: Laurent Shwartz, dan Atle Selberg

1936: Lars Valerian Ahlfors, dan Jesse Douglas

## **Hadih Rolf Nevalina 2010**

The Rolf Nevanlinna Prize is awarded once every 4 years at the International Congress of Mathematicians, for outstanding contributions in Mathematical Aspects of Information Sciences including:

1. All mathematical aspects of computer science, including complexity theory, logic of programming languages, analysis of algorithms, cryptography, computer vision, pattern recognition, information processing and modelling of intelligence.
2. Scientific computing and numerical analysis. Computational aspects of optimization and control theory. Computer algebra.

Pemenang hadiah ini untuk 2010 ialah Daniel Spielman, Profesor Matematik Gunaan/Terapan dan Sains Komputer, Jabatan Sains Komputer, Yale University, AS



**Pemenang yang dahulu:** Jon Kleinberg (2006), Madhu Sudan (2002), Peter W. Shor (1998), Avi Wigderson (1994), A.A. Razborov (1990), Leslie Valiant (1986), dan Robert Tarjan (1982)

## Hadiah Nobel Kesusasteraan 2010



Hadiah Nobel Kesusasteraan 2010 dianugerahkan kepada Mario Vargas Llosa dari Peru "kerana kartografi beliau tentang struktur kuasa dan citra-citra tajam beliau berkenaan keperintangan, pemberontakan, dan kekalahan individu". Karya beliau yang masyhurnya termasuklah *Conversación en la catedral* (1969; *Conversation in the Cathedral*, 1975), *La guerra del fin del mundo* (1981; *The War of the End of the World*, 1984) dan *La fiesta del chivo* (2000; *The Feast of the Goat*, 2001). Beliau seorang wartawan, penulis esai, akademiawan dan politikawan (bahkan bertanding Presiden Peru 1990 tetapi kalah)

## Hadiah Nobel Kesusasteraan dalam alaf ini ialah:

**2009: Herta Muller (Jerman)**

**2008: Jean-Marie Gustave Le Clézio (Perancis)**

2007: Doris Lessing (UK)

2006: Orhan Pamuk (Turki)

2005: Harold Pinter (UK)

2004: Elfriede Jelinek (Austria)

2003: John M. Coetzee. (Afrika Selatan, berkarya dalam bahasa Inggeris )

2002: Imre Kertész. (Hungaria)

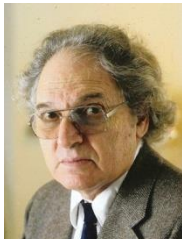
2001: Sir Vidiadhar Surajprasad Naipaul. UK (dilahirkan di Trinidad, berhijrah ke UK dan berkarya dalam bahasa Inggeris sahaja, dan karya agungnya berkenaan dengan kehidupan Muslim kontemporer di Alam Melayu)

2000: Gao Xingjian. Perancis (dilahirkan di China, berkarya dalam bahasa China tetapi kemudiannya berhijrah ke Perancis 1987, dan kemudiannya berkarya pula dalam bahasa Perancis)

## KEMBALINYA SARJANA KE ALAM BAQA (< DISEMBER 2011)

### Matinya Herbert Hauptman, Seorang Matematekawan Pemenang Hadiah Nobel

Herbert Hauptman, who won the [Nobel Prize in chemistry in 1985](#) for work uncovering the structure of molecules that accelerated medical research and led to the development of new drugs, has died on 23<sup>rd</sup> October 2011. He was 94.



Hauptman, a mathematician, received the Nobel Prize three decades after setting out to solve a problem that other scientists had given up on: how to determine molecular structures using X-ray crystallography. He shared the prize with chemist Jerome Karle, with whom he developed mathematical equations to interpret the patterns formed by X-rays scattered from crystals.

He was born in New York City on Feb. 14, 1917. His father was an Austrian immigrant who worked as a printer. He earned a bachelor's degree in mathematics from City College of New York in 1937, a master's in mathematics at Columbia University in 1939, and completed his doctorate in mathematics from the University of Maryland in 1955. At the naval lab he teamed up with Karle, a former City College classmate, to investigate molecular structure using mathematics. Most of the work that led to their joint Nobel Prize was conducted between 1950 and 1956. Their mathematical approach was controversial among chemists and was ignored for years. Its acceptance grew in the 1970s as the introduction of computers made their techniques easier to apply. The method became indispensable to modern chemistry and the pharmaceutical industry because it allowed scientists to "make three-dimensional representations of drugs so that we understand what they look like in space and can understand how they work," said Eaton Lattman, chief executive of Hauptman-Woodward. "I don't think there's a single pharmaceutical that's been developed in the last 30 years that hasn't been studied using derivations of what Dr. Hauptman and his colleagues won the Nobel Prize for."

He was a professor at the University at Buffalo, a member of the National Academy of Sciences and author of three books. A violin player, Hauptman loved classical music and, as a hobby, made stained-glass artwork inspired by mathematical shapes. A collection of his work is displayed at Hauptman-Woodward.

Sumber : *Los Angeles Times* 25/10/2011. <http://articles.latimes.com/2011/oct/25/local/la-me-herbert-hauptman-20111025>

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### Meninggalnya Jerry Marsden



Marsden was born in Ocean Falls, British Columbia, on August 17, 1942, died on September 21, 2010, at his home in Pasadena, California. A member of the Department of Mathematics at the University of California, Berkeley, since 1968, he retired almost 30 years later, in 1997. From 1988 until his retirement, he also held an appointment as professor of electrical engineering and computer science. He was a Professor of Mathematics, Emeritus Professor of Electrical Engineering and Computer Science, at the UC Berkeley. He supervised the Ph.D. theses of 23 students.

Jerry was a distinctive individual, known for his generosity as a mentor of students and young colleagues and as a communicator to diverse audiences, as well as for having boundless energy and an extraordinary ability to find and exploit the underlying mathematical principles behind issues in science and engineering. He assisted Abraham in the writing of *Foundations of Mechanics*, Choquet with the three-volume *Lectures on Analysis*, and Wightman with his *Lectures on Statistical Mechanics*. The book with Abraham went through several subsequent incarnations; it became, and has continued to be, one of the central texts in the field known as geometric mechanics, wherein methods from symplectic geometry are applied to problems concerning the motion of particle and continuum systems. In addition to this and other graduate-level books, Jerry was well-known as the author of numerous widely used texts for lower-division calculus and upper-division real analysis and complex analysis.

In 1968, Jerry completed his Ph.D. thesis, under Wightman's direction, on "Hamiltonian One Parameter Groups and Generalized Hamiltonian Mechanics." This work, on flows generated by nonsmooth hamiltonians, was motivated in part by problems of hamiltonian dynamics in infinite dimensions, the subject of much of Jerry's later work on continuum mechanics. Rereading the thesis today, one also sees ideas which have reappeared recently in the "pure" mathematical theory of continuous hamiltonian dynamics in finite dimensions.

The beginning of the 1970s saw Jerry's major work with David Ebin, in which they applied infinite-dimensional geometric analysis to prove uniqueness and short-time existence of solutions to the Euler equations of motion for ideal, incompressible fluids. At the same time, he began a series of papers with Arthur Fischer, Vincent Moncrief, and others on the hamiltonian structure of Einstein's evolution equations. This work developed into a more general interest in the hamiltonian formulation of field equations in the so-called multisymplectic formalism.

In the early 1970s, following work by Stephen Smale on celestial mechanics, Jerry, along with Alan Weinstein, introduced a construction in symplectic geometry now widely known as "Marsden-Weinstein reduction." This construction, which produces smaller symplectic manifolds from symplectic manifolds on which symmetry groups act, has found application, not only in geometric mechanics, but also in such diverse areas of mathematics and physics as algebraic geometry, representation theory, and topological field theory.

In the late 1970s and early 1980s, Jerry added several new topics to his wide range of interests, including classical field theory, bifurcation theory, geometric phases, and control theory. With Weinstein, he began to find applications of symplectic reduction to the hamiltonian formulation of dynamical equations for plasmas, fluids, and other continuum systems, leading to a broad spectrum of results on equilibria and their stability. Jerry continued to pursue these applications with many collaborators, notably Darryl Holm and Tudor Ratiu.

Toward the middle of the 1980s, as Jerry's work on control theory began to move to the center of his attention, his research shifted gradually towards engineering mathematics. During the last 15 years of his life, following his move to Caltech, Jerry added yet more topics to his list of interests, including nonholonomic mechanics, structure preserving algorithms, variational calculus for mechanical systems (both continuous and discrete), mission design for spacecraft, and the application of Dirac structures to electrical networks. At the same time, he worked on foundational problems in Lagrangian mechanics, particularly in connection with reduction.

Jerry never dropped a subject; he only added to his list of interests. As a result, he saw bridges between very different areas. For, example, he would apply ideas from relativity to elasticity, thereby arriving at remarkable foundational results. Or he would use geometric mechanics ideas in numerical algorithms. Control theory and dynamical systems techniques would find their way into spacecraft mission design, asteroid orbit analysis, or studies of molecular motion. Discrete differential geometry or locomotion problems would be treated using geometric mechanics and Dirac structures.

*He leaves behind an applied mathematics school that he created by importing geometric and dynamical systems ideas into diverse applied areas such as numerical analysis, classical applied mathematics, theoretical physics, and engineering. He created strong links between pure and applied mathematics as well as between mathematics and various areas of physics, engineering, and chemistry. His ideas have influenced generations of researchers who have used geometry in their work.*

**Sumner: SIAM News.** Volume 44/ Number 8, October 2011.  
[http://www.cds.caltech.edu/~marsden/remembrances/?page\\_id=197](http://www.cds.caltech.edu/~marsden/remembrances/?page_id=197)

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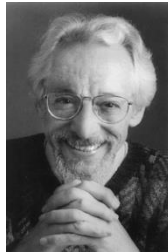
## Robert Osserman, noted Stanford mathematician, dies at 84

Robert Osserman died Nov. 30, 2011 at his home in Berkeley. He was 84. Osserman received his PhD from Harvard University, where he wrote his thesis under the direction of Lars Ahlfors. He initially worked in the field of Riemann surfaces and complex analysis. His monograph *Survey of Minimal Surfaces*, first published in 1969, with a second edition in 1986, remains a standard reference in the subject and has introduced this beautiful subject to generations of mathematicians. Minimal surfaces and their generalizations are central to geometric analysis, an area of research that has connections to many areas in physics, the calculus of variations, Riemannian geometry and partial differential equations. During his tenure as chair of Stanford's math department and for the decade that followed, Osserman played a key role in hiring and nurturing many of the world's best mathematicians in this area, helping the university to become a world leader in this very important field of mathematics.

For several years in the 1980s he collaborated with Professors Sandy Fetter, physics, and James Adams, mechanical engineering, to design and teach the course *Values in Technology, Science and Society*. This was an innovative project intended to teach mathematical, physics and engineering principles to undergraduates majoring in nontechnical fields. That experience was the beginning of an exploration that led to him to write *Poetry of the Universe: A Mathematical Exploration of the Cosmos*, which was published in 1992. The popular science book brought in themes from Dante and elsewhere to describe the geometry behind modern cosmology. He was elected a fellow of the American Association for the Advancement of Science in that same year.

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With astronaut Michael Foale, he produced a film called *The Right Spin*, about the use of mathematics to put the space station Mir into a regular spin after a failed docking attempt induced a tumbling motion that prevented the solar panels from facing the sun. Without power, navigation was impossible, evacuation was inevitable, and Mir would have burned up re-entering Earth's atmosphere. The film is available as a DVD from the American Mathematical Society.



Sumber: Stanford Report, December 16, 2011. <http://news.stanford.edu/news/2011/december/robert-osserman-obit-121611.html>

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## Sir Michael Dummett

Sir Michael Dummett, Wykeham Professor of Logic at Oxford passed away peacefully at home on 27 December 2011.



One of the most important philosophers of the English speaking world in the second half of the 20th century has died at the age of 86. Professor Sir Michael Dummett was Wykeham Professor of Logic in the University of Oxford. He was enormously influential as a philosopher through major publications and supervision of many outstanding graduate students. He also played a significant role throughout his career combatting racism in the United Kingdom, and when he was knighted, it was “for Services to Philosophy and to Racial Justice”. He was also a world authority on voting procedures, a highly theoretical study of the very practical problem how to ensure that voting systems deliver fair results free, as much as possible, from distortion by tactical voting.

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## Martin Gardner (1914–2010)



Martin Gardner (1914–2010) took no mathematics courses after high school. He attempted to learn calculus in college but failed. He graduated from the University of Chicago with a bachelor's degree in philosophy. He did a year of graduate study, but earned no advanced degree. Gardner was the ultimate polymath. His passion for mathematics stayed with him his entire life. He wrote seventy books on mathematics and related topics. His column in *Scientific American*, which ran for more than twenty-five years, was read worldwide and had an enormous influence over popular interest in mathematical topics. Perhaps Gardner's most successful book was one of his first. *The Annotated Alice* was greatly popular, and is still in print today. He got his start in publishing as the editor of *Humpty Dumpty* magazine, a children's periodical. The paper-folding puzzles that Gardner designed for *Humpty Dumpty* led to his first contact with *Scientific American*. Gardner began his *Mathematical Games* column in the latter magazine in 1956 and continued it until 1981. Gardner is remembered for introducing his reading public to

Flexagons ; John Horton Conway's Game of Life; Polyominoes ; Paradoxes such as the unexpected hanging ; Fractals; The work of M. C. Escher; Penrose tiling; Piet Hein's superellipse; Random walks ; Graceful graphs ; Worm paths; Minima sculpture; Newcomb's paradox; Nontransitive dice; The board game Hex; Public key cryptography; The Kakeya needle problem; And there are dozens more.

Gardner had many interests. He was an expert magician. He was a noted skeptic and took great interest in debunking pseudoscience and fraudulent psychic phenomena. He had a great interest in religion. His friends and professional acquaintances ranged from John Nash to Douglas Hofstadter to John Milnor to magician James Randi to Ron Graham and Donald Knuth. Martin Gardner thought he had an advantage as a mathematical writer not to have any back-ground in mathematics. He said that, if he could not understand an idea, then his readers would not understand it either. Gardner prepared each of his columns in a painstaking and scholarly fashion and conducted copious correspondence to be sure that he got all the ideas straight. He was humble and straightforward and was at ease approaching even great minds with his questions. Every few years there is a gathering to celebrate Martin Gardner and his contributions to our intellectual culture. The last such meeting was attended by 1,400 people. Clearly Gardner will be remembered for many years to come.

By Steven G. Krant: *AMS Notices*, March 2011

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## Paul George Malliavin



On June 3, 2010, Paul Malliavin died at the American Hospital in Paris. At the time of his death, he was four months short of his eighty-fifth birthday. Malliavin was a major mathematical figure throughout his career. He studied under Szolem Mandelbrojt, who had returned to France after World War II from the United States, where he had been on the faculty of what, at the time, was the Rice Institute. Both Malliavin and Jean-Pierre Kahane received their degrees under Mandelbrojt in 1954, and Yitzhak Katznelson received his from Mandelbrojt a couple of years later. Thus, in less than three years, Mandelbrojt produced three students who would go on to become major figures in mid-twentieth-century harmonic analysis. Malliavin's own singular contribution to harmonic analysis is described here by Kahane. Like many other definitive solutions to mathematical problems, Malliavin's solution to the spectral synthesis problem killed the field, with the ironic consequence that few young mathematicians even know the statement of the problem, much less the name of the person responsible for its solution. Not one to rest on his laurels, Malliavin soon turned his attention in new directions. His early work won him an invitation to visit Arne Beurling at the Institute for Advanced Study, where, as Kahane explains here, during a second visit, Malliavin and Beurling completely solved two fundamental problems in classical complex variable theory. After completing his project with Beurling, he went on to think about complex variable theory and expanded his interests to include analytic functions of more than one variable. This line of research

culminated in his joint paper, with his wife Marie-Paule Malliavin. As Gundy explains in his essay here, this paper represents a departure from classical, purely analytic thinking about analytic functions and potential theory. Instead, the ideas in the Malliavin and Malliavin paper can be seen as descendants of stochastic analytic techniques with which Joseph Doob had given a novel derivation of the Fatou theorem for analytic functions on the disk. It would appear that Malliavin's excursion into probability theory made a lasting impression on him. Ever since Laplace, France has had a proud tradition in probability theory. At the turn of the twentieth century, Emile Borel and Henri Lebesgue were laying the foundations on which Andrey Kolmogorov would build the axiom system which has become the generally accepted one for the mathematical analysis of random phenomena. At the same time, Henri Poincaré's student Louis Bachelier was constructing the model which has recently provided employment for many young mathematicians in the financial industry. That tradition was continued in France by Paul Lévy, whose uncanny understanding of stochastic processes became, once it was explained to the rest of us by Kyoshi Itô, the basis for much of the work that probabilists have done ever since. Further, under the masterful tutelage of Jacques Neveu and, on the more analytic side, Gustave Choquet, postwar France was producing a new cohort of mathematicians whose primary interest was probability theory. Until recently, perhaps the most influential of these was Choquet's student Paul-André Meyer, who realized that, in their haste, Lévy, Doob, and others had treated several notions too casually, a situation that Meyer, first by himself and later with his student Claude Dellacherie, remedied. In spite of the existence of many active French research groups in probability theory, Malliavin charted his own course. He came to the subject as an analyst with wide-ranging interests, and he brought to the subject a vision which only someone with his encyclopedic knowledge of mathematics could provide. Free from prejudice about what topics and methods are or are not "probabilistic", Malliavin trained his formidable technical expertise on aspects of the field that had not been fully considered. His initial project was to understand Brownian motion on a Riemannian manifold from a differential geometric standpoint. Building on a key observation made by David Elworthy and James Eells, Malliavin understood that the Brownian motion on a manifold could be realized by "rolling" a Euclidean Brownian motion in the tangent space onto the manifold. In order to overcome the technical difficulties posed by the nondifferentiability of Brownian paths, he lifted everything to the bundle of orthonormal frames, where he could apply well-established techniques from Itô stochastic differential calculus. As a result, he gave an elegant construction of the Brownian paths on the manifold, one in which they came equipped with an intrinsic notion of parallel transport. Malliavin's ideas were quickly absorbed and exploited by Jean-Michel Bismut, who used them in his proof of the Atiyah–Singer index theorem. Having thoroughly assimilated Itô calculus, Malliavin began to realize that Itô's stochastic differential equations could be viewed as a prescription for defining nonlinear transformations of Wiener space, transformations that, although they are defined only up to a set of Wiener measure 0, are nonetheless "smooth" and, as such, are susceptible to analysis. This realization was the origin of what Malliavin called the stochastic calculus of variations and what one of the present authors dubbed the "Malliavin calculus", a cursory résumé of whose initial formulation is given below. Not content to have been its inventor, Malliavin played a leading role in the application of the Malliavin calculus. Over the past twenty-five years, he and his collaborators produced a large body of work in which his calculus played a central role. The essay here by Leonard Gross gives a glimpse into one of the programs in which Malliavin was involved at the time of his death. Missing here are accounts of the many other projects in which Malliavin was engaged. For example, together with his son-in-law Anton Thalmaier, Malliavin wrote a book in 2000 in which various applications of his calculus to mathematical finance are proposed. Finally, we have included here an homage to Malliavin composed by Michele Vergne. Her essay portrays Malliavin the man, not just Malliavin the mathematician. Most people, even those who have made profound contributions, are unable to sustain their vigor and eventually enter their dotage. Malliavin never did. Indeed, his student and longtime collaborator Hélène Airault was at his bedside as he was dying, and she reports that he was discussing mathematics from behind the oxygen mask covering his face. He was a remarkable individual, and, at least for those of us who were privileged to know him, the world will be a less interesting place now that he is gone.

Daniel W. Stroock and Marc Yor: AMS Notices , April 2011.

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## Peter Hilton



Peter Hilton was born in London on April 7, 1923, to Elizabeth Freedman and a family physician, Mortimer Hilton, whose office was in Peckham. His parents hoped that he would become either a doctor (as his brother Sydney did) or a lawyer. Fate first intervened when he was run over by a Rolls Royce at the age of ten. During a long hospital stay he discovered that he could use the plaster cast on his left leg, which reached all the way to his navel, as a sort of white board; he solved mathematical problems on it, erasing them each morning. This is when, in his words, "It came to me that I really loved mathematics and thoroughly enjoyed doing it. I recall even having unkind thoughts about visitors who came to see if I was all right, as they would interrupt

me when I was really enjoying what I was doing.” He attended St. Paul’s School in Hammersmith, where, being enlightened educators, they left him to study what he wanted in the later years. With unexplained prescience about the unrest leading up to World War II, he decided to teach himself German. He then won a scholarship to Queen’s College, Oxford, where he read mathematics. When he was eighteen, fate intervened for a second time. Peter began work at Bletchley Park in January 1942 (see Copeland’s contribution below for more details); he thereby avoided service in the military, where, as Peter said at the time, “I would surely die—of boredom!” On Peter’s eightieth birthday, Shaun Wylie, Peter’s coauthor, wrote: “This young chap from Oxford joined us in Hut 8 at Bletchley, and soon made his mark. When he moved on to work on Fish, he did more than that; he dominated his section . . . he was brilliant at his job and enormous fun to be with.” Peter was awarded an M.A. at Oxford in 1948, a D.Phil. from Oxford in 1950 for his thesis, *Calculation of the Homotopy Groups of  $A_{2n}$ -Polyhedra*, and a Ph.D. from Cambridge in 1952. He married Margaret (Meg) Mostyn on September 14, 1949; they had two sons, Nicholas and Tim. Peter and Meg shared a love of theater, Meg professionally and Peter very much less formally. Indirectly, Peter’s love of theater led to our meeting. In 1977 I was asked to get George Pólya, with whom I had been studying informally for about ten years, and Peter together to do a presentation at a joint meeting of the Mathematical Association of America (MAA) and AMS in Seattle. They wanted Hilton to tell about “How Not to Teach Mathematics” and then have Pólya give “Some Rules of Thumb”. When I wrote to Peter, he said “No!” He thought it would be more interesting (and fun) if he simulated a thoroughly bad demonstration of teaching mathematics, and he agreed to do that, instead, if I would be the moderator. The lectures took place on August 14, 1977. A repeat performance, which was televised [1], took place in the fall of 1978 at the San Diego meeting of the National Council of Teachers of Mathematics. Peter then agreed to come to Santa Clara University to give a colloquium talk. When he saw my office and heard about my interest in geometry, we discovered we both had a strong interest in polyhedra (from totally different points of view), and, as they say, the rest is history! Our mutual interest lay in the mathematics involved with geometry. Peter got interested in an algorithm I had developed that concerned a systematic method of folding a straight strip of paper, say, adding-machine tape, that produced increasingly good approximations for any given rational multiple of  $\pi$ , at equally spaced points along an edge of the paper. We began working seriously on it in January of 1981 when we were both at the Eidgenössische Technische Hochschule (ETH) in Zürich. This naturally took us into number theory, polyhedral geometry, and combinatorics, and it continued for over thirty years until the time of Peter’s death. The relevant mathematics is chronicled in our most recent book, *A Mathematical Tapestry: Demonstrating the Beautiful Unity of Mathematics* [2]. In Section 16.6 we wrote about “Pólya and ourselves—Mathematics, tea and cakes”, which describes, as the title suggests, more about our interactions with each other and with Pólya. An event that demonstrates the *joie de vivre* of collaborating with Peter involved the construction of a figure for one of our articles. We needed a star {113}-gon (i.e., the top edge of the tape would visit every third vertex of a bounding regular convex 11-gon). I had pulled the tape a little too tight and got a star {103}-gon. When I reported this mishap to Peter he said cheerfully, “Don’t worry, we say in the beginning these are only approximations!” He never failed to see the humorous side of things. Although Peter excelled at abstract thinking, he always applied mathematics to real life. He came to understand the principle of mathematical induction at the age of seven when drying dishes for his mother. He realized that the old trick of drying two plates at a time could, in theory, be extended by induction to  $n$  plates. As for applying mathematics to social situations, Sir Christopher Zeeman said in his letter on Peter’s eightieth birthday: “From you I also learned how to talk politics, without endangering friendship. You taught me that if we disagreed about some conclusions then we should go back and examine our beliefs about the underlying facts. You acknowledged that if you believed in my version of the facts then you would share my conclusions, and you persuaded me that if I believed in your version of the facts then I would share your conclusions. It was a kind of mathematical approach; an agreement about the proofs, whatever the hypotheses and theorems. It was a lesson that has served me well throughout my life, in conversations about everything under the sun.” I was blessed with two great mentors, first George Pólya (for far too short a time) and then Peter Hilton. Pólya introduced me to polyhedral geometry, the wonders of “looking for patterns”, and the importance of posing problems. Peter showed me how to generalize and how to see connections between various parts of mathematics. Both Pólya and Peter made the doing of mathematics an adventure constantly filled with excitement. Together Peter and I coauthored 144 papers and 6 books, often giving joint lectures on our current topic of interest. My family was enriched by our friendship with Peter’s family. I was excited to watch Meg perform (as Jim Dale’s mother) in the production of the Broadway Tony-Award-winning play, *A Day in the Death of Joe Egg* (right after she won the Clarence Dewent award for her role in *Molly*). I have fond memories of Peter, Meg, Kent (my husband), and me on our land-cruise tour of Alaska. I smile recalling when Kent, Peter, and I walked through some drizzly California redwoods on what Peter called a “lovely London day”, and later we played three-handed bridge at our house (where Peter got the bid with an appallingly bad dummy). I will always miss Peter, but I am grateful for the memories and the years of collaboration we shared.

#### References

- [1] Hilton-Pólya DVD, recorded on VHS in 1978, digitized 2011. Available from Media Services, Santa Clara University, Santa Clara, CA 95053 (US\$25.00 + postage and handling).
- [2] P. Hilton and J. Pedersen, with illustrations by Sylvie Donmoyer, *A Mathematical Tapestry: Demonstrating the Beautiful Unity of Mathematics*, Cambridge University Press

Jean Pedersen, Coordinating Editor: *AMS Notices*, Dec. 2011

## BUKU-BUKU PILIHAN BAHARU

### BUKU KEMANUSIAAN DAN KEMASYARAKATAN YANG LARIS JUALAN 2010

#### Laris Jualan Malaysia Julai-Dis 2011 terbitan PTS

Taip: Buku PTS laris 2011, atau

**10 buah buku PTS paling laris Julai-Dis 2011** (kecuali Julai, Okt.)

#### Julai 2011

##### Popular book store

- 1.1 Hari 1 Resipi: 365 Resipi Istimewa Chef Hanieliza (Chef hanieliza ) - PTS Millenia
2. Terjemahan Al Qur'an Al Karim : Kecil ~ Kulit Nipis - Al Hidayah House of Qur'an
3. Agenda Yahudi Menakluk Dunia (sabaruddin hussein ) - PTS Islamika
4. Terjemahan al qur'an al karim ~ Saiz Comel - Al Hidayah House of Qur'an
5. Jangan Bersedih [Edisi Eksklusif Popular] ( Dr. 'Aidh bin 'Abdullah Al - Qarni ) - Al Hidayah
6. Iman-iman yg benar~kisah 4 iman mazhab ( Abdul Latip Talib ) - PTS Litera
7. Israk & Mikraj : Tinjauan Saintifik di Sebalik Kontroversi ( Armansyah ) - PTS Islamika
8. Jangan Bersedih Jadilah Wanita Paling Bahagia ( Dr. 'Aidh bin 'Abdullah Al - Qarni ) - Al Hidayah
9. Kesalahan-Kesalahan Dalam Ibadah Solat ( Akmal hj mhd zain ) - Al Hidayah
10. Tokoh Idola Muslimah (Sakinah Salleh ) - PTS Millenia

#### Ogos 2011

1. 1 hari 1 resipi: 365 Resipi Istimewa Chef Hanieliza (chef hanieliza ) - PTS Millenia
2. La Tahzan( Edisi Eksklusif POPULAR ) : Gadisku, Kerana Cinta & Kerana Jodoh (Najla mahfuzh )
3. Terpelanting Dari Siratulmustakim ( SUYADI ) - PTS Millenia
4. Jangan Bersedih [ Edisi Eksklusif POPULAR ] ( Dr. 'Aidh bin 'Abdullah Al - Qarni ) - Al Hidayah
5. Kaum-Kaum yang Pupus [ Apabila Datang Azab ALLAH ] ( HARUN YAHYA ) - Al Hidayah
6. Terjemahan Al Qur'an Al Karim : Wallet - Al Hidayah House of Qur'an
7. Himpunan Solat-Solat Sunat ( rusydi ramli al-jauhari ) - Must Read
8. Jangan Bersedih [ Edisi Eksklusif Popular ] (Dr. 'Aidh bin 'Abdullah Al - Qarni ) - Al Hidayah
9. Biografi Muhammad bin Abdullah ( Zulkifli M. Yusoff & Noor Naemah Bt. A. Rahman ) - PTS Islamika
10. Ramadan Tiba Lagi ( Wan Mohd Noh Wan Hamat & Rusnah Abu Samah ) - Yamani Angle

#### Sept 2011

1. Anda Bertanya Ustaz Azhar Idrus Menjawab Permasalahan Semasa
2. The Best of Dear Yayah The Comics
3. Young Aisyah The Series
4. Akukah Puteri Itu?
5. Bencana Akhir Zaman
6. 1 Hari 1 Resipi 365 Menu Istimewa Chef Hanieliza
7. Resipi Ala Gerai: Masakan Mamak
8. Resipi Ala Gerai: Masakan Thai
9. Komik-M: Aku, Kau & Bola 1 (Separuh Masa Pertama)
10. Pilihlah Aku Menjadi Pramugari

#### Okto 2011

4. Inspirasi Cinta Terhebat -edisi eksklusif popular ( burhan sodiq ) - Kemilau Publika
6. Ya Allah, Diakah Jodohku ( Burhan Sodik ) - Kemilau Publika
7. Terpelanting Dari Siratulmustakim (suyadi ) - PTS Millenia
8. Travelog Wartawan Islam ( Roslan Hamid ) - Kemilau Publika
9. Manual Pantas : Hebatnya Anroid ( I.T Works ! ) - PTS NetMedia
10. Khutbah Terakhir Rasulullah ( Ibnu rijal ) - Must Read

## Nov 2011

### 5 teratas Bukan Cereka

1. Hari 1 Resipi - Chef Hanieliza (Okt. 1)
2. Anda bertanya ustaz azhar Idrus menjawab berkenaan persoalan semasa (Uz Azhar Idrus) - PTS Islamika (Okt.2)
3. Bencana Akhir Zaman (Fahrur Muis) -- PTS Islamika (Okt. 3)
4. La Tahzan (kombinasi : gadisku, kerana cinta & jodoh) (Najla mahfuzh) (Okt. 5)
5. Inspirasi Cinta Terhebat - Burhan Sodik

### 5 teratas Cereka

1. Akhirnya Aku Kahwin! - Herna Dania
2. Cinta Kontrak - Nurul Ain Syuhada
3. Uda & Dara - Aisya Sofea
4. Yess Boss - Areila Sahimi
5. 7 hari mencintaiku - Siti Rosmizah

## Dis. 2011

### 10 Teratas Paling Laris Bukan Fiksyen

- 1 hari 1 resipi: 365 Resipi Istimewa Chef Hanieliza (Chef hanieliza) - PTS Millenia
- Ensiklopedia Solat: Kombinasi Fakta Hukum dan Sains (Fiqah, Falsafah, Sejarah, Saintifik) (Datuk Haji Md Hashim Yahaya) - Telaga Biru
- Anda Bertanya Ustaz Azhar Idrus Menjawab Berkenaan Permasalahan Semasa (Uz Azhar Idrus) - PTS Islamika
- Cinta : Meraikan Kasih Di Langit Syurga (Zamri Mohamad & Imran Yusuf) - PTS Millenia
- Inspirasi Cinta Terhebat -edisi eksklusif popular (burhan sodiq)
- Kemilau Publika Bencana Akhir Zaman (Fahrur Muis) - PTS Islamika
- La Tahzan (Edisi Eksklusif Popular) : Gadisku, Kerana Cinta & Kerana Jodoh (Najla mahfuzh) Jangan Asal Solat (Abdullah bin ahmad) - Jasmin Publication
- Anda Bertanya Ustaz Menjawab mengenai Solat (Rohidzir Rais) - PTS Islamika
- Dahsyatnya Taubat Nasuha (Ibnu qudamah al-maqdisy) - PTS Islamika

## Buku umum dari Indonesia Julai-Dis 2010

Kompasiana: <http://media.kompasiana.com/buku/2011/01/02/100-buku-karya-anak-negeri-terbaik-tahun-2010-329763.html>

- Dari Kiai Kampung ke NU Miring (Binhad Nurrohmat, Penerbit Ar-Ruz Media) – Julai
- Globucksisasi; Meracik Globalisasi Melalui Secangkir Kopi (Rahayu Kusasi, Penerbit Kepik Ungu) - Julai
- Argumen Islam untuk Sekulerisme (Budhy Munawar-Rachman, Penerbit Grasindo) – Ogos
- Batavia 1740; Menyisir Jejak Betawi (Windoro Adi, GPU) - Ogos
- Al Qur'an; Kitab Toleransi (Zuhairi Misrowi, Penerbit Grasindo) – Sept.
- Mindset Islami (Sugeng Waluyo, GPU) - Sept
- Antologi Cerpen & Puisi Festival Bulan Purnama Majapahit (2010) –Okt
- Demokrasi Substansial : Risalah Kebangkutan Liberalisme (Donny Gahril Adian, Penerbit Koekoesan) – Okt
- Melukis Langit (Kit Rose, Penerbit Pensil 324) – Nov
- Knowledge and Innovation ; Kekuatan daya Saing (Zuhal, GPU) – Nov
- Keliling Indonesia, Dari Era Bung Karno sampai SBY (Gerson Poyk, Penerbit Libri) – Dis
- Si Murai dan Orang Gila; Bunga Rampai Cerpen Panggung Sastra Komunitas Dewan Kesenian Jakarta (Akhmad Sekhu, dkk., KPG dan DKJ) – Dis

## Buku-e bidang sains matematik Indonesia:

Prakarsa LIPI (Lembaga Ilmu Pengetahuan Indonesai) kini sudah menghasilkan lebih drp 500 buah judul dari peringkat sekola universitas.

<http://www.buku-e.lipi.go.id/utama.cgi?depan>

## Laris Jualan MPH 2011, Julai-Disember

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- (Dis.1, Nov.1). [\*Steve Jobs: A Biography\*](#) by Walter Isaacson
- (Dis. 2, Nov.6, Okt.1 , Sept. 2, Julai & Ogos 1). [\*A Doctor in the House: The Memoirs of Tun Dr Mahathir Mohamad\*](#) by Tun Dr Mahathir Mohamad
- (Dis. 3, Nov.3, Okt. 7, Ogos 8, Julai 5). [\*Chicken Soup for the Soul: Think Positive – 101 Inspirational Stories about Counting Your Blessings and Having a Positive Attitude\*](#) by Jack Canfield, Mark Victor Hansen, Amy Newmark
- (Dis.4). [\*My Lifelong Challenge: Singapore's Bilingual Journey\*](#) by Lee Kuan Yew
- (Dis. 5., Ogos 10, Julai 2) [\*Heaven is for Real: A Little Boy's Astounding Story of His Trip to Heaven and Back\*](#) by Todd Burpo, Lynn Vincent
- (Dis. 6). [\*The Secret Letters of the Monk Who Sold His Ferrari\*](#) by Robin Sharma
- (Dis. 7, Nov. 5). [\*I Moved Your Cheese: For Those Who Refuse to Live as Mice in Someone Else's Maze\*](#) by Deepak Malhotra
- (Dis. 8, Okt. 5, Sept. 10, Ogos 4) . [\*Lee Kuan Yew: Hard Truths to Keep Singapore Going\*](#) by Han Fook Kwang, et al
- (Dis. 9, Nov.2, Okt. 9). [\*The Night the Angels Came\*](#) by Cathy Glass
- (Dis. 10). [\*No Excuses!: The Power of Self-Discipline – 21 Ways to Achieve Lasting Happiness and Success\*](#) by Brian Tracy
- (Nov.4). *Body Language at Work: Read the Signs and Make the Right Moves* by Peter Clayton
- (Nov. 7). *Your Head Here* by Sherwin Ng
- (Nov. 8). *Guinness World Records 2012* by Guinness World Records Limited
- (Nov. 9, Okt. 6)). *Personality Plus at Work: How to Work Successfully with Anyone* by Florence Littauer, Rose Sweet
- (Nov. 10). *Spontaneous Happiness* by Andrew Weil, MD
- (Okt. 2). [\*The 3rd Alternative: Solving Life's Most Difficult Problems\*](#) by Stephen R. Covey
- (Okt. 3). [\*Conversations With Myself\*](#) by Nelson Mandela
- (Okt. 4). [\*Wonders of the World: 100 Incredible and Inspiring Places on Earth\*](#) by Igloo Books Ltd
- (Okt. 8, Sept. 6, Ogos 2). [\*Faces of Fortune: The 20 Tycoons to Bet on Over the Next 10 Years\*](#) by Tee Lin Say
- (Okt.10). [\*Arguably: Essays\*](#) by Christopher Hitchens
- (Sept.1). [\*Quantum Leaps: 100 Scientists Who Changed The World\*](#) by Jon Balchin
- (Sept. 3, Ogos 3). [\*The Power of X: Enter the 10 Gods\*](#) by Joey Yap
- (Sept. 4). [\*A Journey\*](#) by Tony Blair
- (Sept 5). [\*At Home: A Short History of Private Life\*](#) by Bill Bryson
- (Sept. 7). [\*Events That Changed the World\*](#) by Igloo Books Ltd
- (Sept. 8). [\*Life is What you Make It\*](#) by Peter Buffett
- (Sept. 9). [\*The Grand Design\*](#) by Stephen Hawking (9 August)
- (Ogos 5). [\*A Brief History of Time: From the Big Bang to Black Holes\*](#) by Stephen Hawking
- (Ogos 6). [\*Battle Hymn of the Tiger Mother\*](#) by Amy Chua
- (Ogos 7). [\*The Oil Kings: How the U.S., Iran, and Saudi Arabia Changed the Balance of Power in the Middle East\*](#) by Andrew Scott Cooper
- (Julai 3). [\*Life Coach: Become the Person You've Always Wanted to Be\*](#) by Pam Richardson
- (Julai 6). [\*Once a Jolly Hangman: Singapore Justice in the Dock \(Second Edition Revised and Updated\) \(The Book That Shock Singapore\)\*](#) by Alan Shadrake
- (Julai 7). [\*Cleopatra: A Life\*](#) by Stacy Schiff
- (Julai 8). [\*A Stolen Life: A Memoir\*](#) by Jaycee Dugard
- (Julai 9). [\*How to Think Like Einstein: Simple Ways to Break the Rules and Discover Your Hidden Genius\*](#) by Scott Thorpe
- (Julai 10). [\*The Immortal Life of Henrietta Lacks\*](#) by Rebecca Skloot

### Cereka

- (Dis.1). [The New Collected Short Stories](#) by Jeffrey Archer  
 (Dis. 2). [The Girl with the Dragon Tattoo \(Movie Tie-in\)](#) by Stieg Larsson  
 (Dis. 3, Nov.6, Sept 2). [Aleph](#) by Paulo Coelho  
 (Dis. 4, Nov.1, Okt. 1). [The Time of My Life](#) by Cecelia Ahern  
 (Dis. 5, Nov. 4, Okt.4, Sept. 1). [Only Time Will Tell](#) by Jeffrey Archer  
 (Dis. 6). [1Q84](#) by Haruki Murakami  
 (Dis. 7). [The Sixth Man](#) by David Baldacci  
 (Dis. 8, Nov. 10). [The Litigators](#) by John Grisham  
 (Dis. 9) . [The Fifth Witness \(A Lincoln Lawyer Novel\)](#) by Michael Connelly  
 (Dis. 10). [Empire of Silver](#) by Conn Iggulden
- (Nov.2, Okt. 2). *The Best of Me* by Nicholas Sparks  
 (Nov. 3, Okt. 3, Sept. 8). *Room* by Emma Donoghue  
 (Nov. 5). *Sing You Home* by Jodi Picoult  
 (Nov.7). *The Best Little Book Club in Town ( Supporting Breast Cancer Care)* by Various  
 (Nov. 8). *One Day (Movie Tie-In)* by David Nicholls  
 (Nov. 9). *Because You're Mine* by Lisa Kleypas
- (Okt.5.) [The Help](#) by Kathryn Stockett  
 (Okt. 6). [Legacy](#) by Danielle Steel  
 (Okt. 7). [The Sense Of An Ending \(2011 Man Booker Prize\)](#) by Julian Barnes  
 (Okt. 8). [The Christmas Wedding](#) by James Patterson  
 (Okt. 9). [Sexiest Vampire Alive](#) by Kerrelyn Sparks  
 (Okt. 10). [In Pursuit of Eliza Cynster](#) by Stephanie Laurens
- (Sept. 3, Julai 5). [The Tiger's Wife](#) by Tea Obreht  
 (Sept. 4, Ogos 4). [I Don't Know How She Does it \(Movie Tie-in\)](#) by Allison Pearson  
 (Sept. 5, Julai 7). [A Dance With Dragons \(A Song of Ice and Fire #5\)](#) by George R.R. Martin  
 (Sept. 6, Ogos 5). [Fall of Giants](#) by Ken Follett  
 (Sept. 7). [Zero Hour](#) by Andy McNab  
 (Sept. 9). [What's New, Pussycat?](#) by Alexandra Potter  
 (Sept. 10, Ogos 2, Julai 4). [The Confession](#) by John Grisham
- (Ogos 1, Julai 2). [A Game of Thrones \(A Song of Ice and Fire\)](#) by George R.R. Martin  
 (Julai & Ogos 3). [Just Like Heaven](#) by Julia Quinn  
 (Ogos 6, Julai 10). [Luka and the Fire of Life](#) by Salman Rushdie  
 (Ogos 7). [Full Dark, No Stars](#) by Stephen King  
 (Ogos 8). [A Visit from the Goon Squad](#) by Jennifer Egan  
 (Ogos 9). [One Day \(Movie Tie-In\)](#) by David Nicholls  
 (Ogos 10). [Love Always](#) by Harriet Evans
- (Julai 1). [Family Ties](#) by Danielle Steel  
 (Julai 6). [Insatiable: The Stake Have Never Been Higher](#) by Meg Cabot  
 (Julai 8). [Transformers 3: The Official Novel](#) by Peter David  
 (Julai 9). [The Particular Sadness of Lemon Cake](#) by Aimee Bender

### Pengarang Tempatan

- (Dis. 1, Nov. 6. Okt. 1, Sept. 2, Ogos 1, Julai 6). [A Doctor in the House: The Memoirs of Tun Dr Mahathir Mohamad](#) by Tun Dr Mahathir Mohamad  
 (Dis. 2). [Inspiring Anecdotes on Management](#) by Heera Singh  
 (Dis. 3. Nov. 3). [The Best of Chef Wan: A Taste of Malaysia](#) by Chef Wan  
 (Dis. 4). [Kisah 25 Nabi-Nabi](#) by Tarikuddin Bin Hj Hassan  
 (Dis. 5, Nov. 4). [101 Rekreasi Hati: Buat Diri Ku yang Mudah Lupa](#) by Dr Zahazan Mohamed; Nik Wafdi Nik Jaafar

- (Dis. 6, Nov.5, Okt. 3, Sept. 5, Julai & Ogos 2). [Ensiklopedia Solat: Kombinasi Fakta Hukum dan Sains \(Fiqah, Falsafah, Sejarah, Saintifik\) \(Ilustrasi & Foto Menarik\)](#) by Datuk Haji Md Hashim Yahaya  
 (Dis 7). [Diari Bagaimana Saya Kurus](#) by Dzulkifri Zulkifle  
 (Dis. 8). [Indahnya Hidup Bersyariat \(Panduan Fardu Ain Lengkap Bergambar\)](#) by Dato Ismail Kamus & Mohd Azrul Azlen  
 (Dis. 9). [Memoir Perjuangan Politik Syed Husin Ali](#) by Syed Husin Ali  
 (Dis. 10). [Anak Apak: Memoir, Politik Kewartawanan](#) by Subky Abdul Latif

- (Nov. 1, Julai 3). *Di Mana Dia Di Hatiku? ALLAH itu Hampir Tapi, Kenapa Aku Masih Meminggir? Akalku Alpa Berfikir, Hatiku Lupa Berzikir...* by Pahrol Mohd Juoi  
 (Nov. 2). *Straight A's Student* by Chin Wynn  
 (Nov. 7). *Kahwin Pada Usia Muda: Bahagia Atau Derita* by Fuad Hj Sam  
 (Nov. 8). *Travelog Misteri Israel Kuasai Dunia: Awas! Kempen Kenali Musuh-Musuh Islam* by Mohd Nadzri Kamsin  
 (Nov. 9, Okt. 6). *Patriots & Pretenders (The Malayan Peoples' Independence Struggle)* by Kua Kia Soong  
 (Nov. 10, Okt. & Sept. 4, Julai & Ogos 5). *Beduk Diketuk* by Pahrol Mohd Juoi

- (Okt. 2). [Hotel Tales: A Little Adventure and Some Unexpected Tales](#) by Hanley Chew  
 (Okt. 5, Sept. 8, Ogos 9). [Notes To The Prime Minister: The Untold Story Of How Malaysia Beat The Currency Speculators](#) by Wong Sulong  
 (Okt. 7). [Khalifah Ganti Superman: Strategi dan Senjata Paling Penting ialah Menjadikan Bisnes Satu Jihad... Teras Sistem Ekonomi Khalifah](#) by Muhammad Ali Hashim  
 (Okt. 8). [Air Mata Ibu: Setitis Air Mata Ibu yang Tumpah dek Penderhakaan Anak Akan Menyemarakkan Api Neraka](#) by Norani Abd Hamid  
 (Okt. 9). [9 July 2011 What Really Happened](#) by Nathaniel Tan  
 (Okt. 10). [Ps, I Laugh You!](#) by David Tong

- (Sept. 1). [Life Through My Eyes](#) by Muhamad Hafiz Ismail  
 (Sept. 3). [Wahai Tuhan Engkaulah Penyembuh: Doa, Jampi dan Amalan Dalam Perubatan Islam](#) by Dato' Haji Ismail Kamus, Mohd Wahid Abd Hanif  
 (Sept. 6). [Growing up with Ghosts](#) by Bernice Chauly  
 (Sept. 7, Julai & Ogos 4). [101 Rekreasi Hati: Buat Diri Ku yang Mudah Lupa](#) by Dr Zahazan Mohamed, Nik Wafdi Nik Jaafar  
 (Sept. 9). [Kembara Hamba Mencari Cahaya \(Langit Ilahi 2\)](#) by Hilal Asyraf  
 (Sept. 10). [Asal Usul Sosial Golongan Kiri Melayu: Satu Analisis Berkenaan Kesatuan Melayu Muda](#) by Rustam A.Sani

- (Ogos 3, Julai 1). [Hadis 40 Imam Nawawi](#) by Zahazan Mohamed & Muhammad Zakaria  
 (Ogos 6). [The Right to Differ: A Biographical Sketch of Lim Kit Siang \(Includes the New Documentary DVD "Life and Times of Lim Kit Siang"\)](#) by Ooi Kee Beng  
 (Ogos 7, Julai 8). [Bogel Menuju Tuhan](#) by Zahiril Adzim  
 (Ogos 8). [Awaken Your Healing Power](#) by John Wong CW  
 (Ogos 10). [Malaysian Tales: Retold and Remixed](#) edited by Daphne Lee

- (Julai 7). [Anakku Brain Tumour: Hikmah 5 Sebelum 5 \(Kisah Benar\)](#) by Isyah Radhiah Idris  
 (Julai 9). [Tuhan... Terimalah Aku](#) by Dato` Hj Md Daud Che Ngah  
 (Julai 10). [Batu-Bata Kehidupan: Tidakkah Sudah Tiba Masanya Kita Bergerak Membina Kehidupan Berlandaskan Arahan-Nya? \(Tarbiah Rohani\)](#) by Hilal Asyraf

**PTS ISLAMIKA SDN BHD. Anugerah Pilihan Pembaca Popular-Berita Harian 2011 berdasarkan statistik jualan sepanjang 2010. <http://ptsislamika.com.my/>**

Penganjuran anugerah ini adalah bersempena Pesta Buku POPULAR, Bookfest@ Malaysia yang dijadualkan berlangsung pada minggu terakhir Ramadan dan menginjak hingga berakhirnya minggu pertama Aidilfitri, 27 Ogos hingga 4 September 2011. Sepuluh buku fiksyen yang akan berentap bagi merebut carta buku popular dalam Anugerah Pilihan Pembaca Popular-Berita Harian 2011 adalah berdasarkan statistik jualan sepanjang 2010.

**Sembilan (sepatutnya 10) buku Cereka** yang dicalonkan ialah *Lafazkan Kalimah Cintamu* (Siti Rosmizah), 2x5 (Areila Sahimi), *Cinta Sufi* (Ramlee Awang Murshid), *Cinta 3 Suku* (Herna Diana), *Pergilah Air Mata* (Hanni Ramsul), *Masih Setia* (Aisya Sofea), *Coke & Sundae* (Ilya Abdullah), *Sepupuku Suamiku* (Lynn Allyna), *Saat Kau Kata Cinta* (Anis Ayuni) dan *Bukan Tak Sudi* (Mimie Affinie).

**Bagi kategori bukan fiksyen pula, 10 yang bertanding** ialah [Agenda Yahudi Menakluk Dunia](#) (Sabaruddin Hussein), *Menyangkal Kiamat* (Mohd Nizam), *10 Terminal Syurga Rumah Tangga* (Datuk Siti Nor Bahyah Mahmood), *Jejak Bisnes Rasul* (Alzuddinur Zakri & Mohd Sulaiman), *Murabbi Cinta* (Hasrizal Abdul Jamil), *Nasib Melayu Di Bumi Melayu* (Dr Ridhuan Tee), *Mengemudi Bahtera Perubahan Minda* (Dr Mohd Asri Zainul Abidin), *Secangkir Teh Pengubat Letih* (Hasrizal Abdul Jamil), *Berbunga Cinta Aisyah Di Hati Rasulullah* (Zamri Mohamad & Imran Yusof) dan *Indahnya Amalan Doa* (Datuk Ismail Kamus).

## Hadiah Sastera Kumpulan Utusan 2010

Pada 31 Okt 2011 di isytiharkan Sri Rahayu Mohd. Yusop terus mengungguli kategori novel remaja Hadiah Sastera Kumpulan Utusan-ExxonMobil 2010 (HSKU) bagi tahun keenam berturut-turut apabila karyanya *Bima Sakti Menari* diumumkan sebagai pemenang tempat pertama. Sebagai pemenang, Sri Rahayu membawa pulang wang tunai berjumlah RM7,000 dan hadiah



Sri Rahayu Mohd. Yusop (tengah) bersama Hazwani Rameli dan Muhammad Syukri Rosli pada Majlis Penyampaian Hadiah Sastera Kumpulan Utusan-ExxonMobil (HSKU 2010), di Kuala Lumpur

Sumber:

[http://www.utusan.com.my/utusan/info.asp?y=2011&dt=1101&pub=Utusan\\_Malaysia&sec=Dalam\\_Negeri&pg=dn\\_05.htm](http://www.utusan.com.my/utusan/info.asp?y=2011&dt=1101&pub=Utusan_Malaysia&sec=Dalam_Negeri&pg=dn_05.htm)

## Hadiah Sastera Mastera 2010 (hadiah dwitahunan)

Ditubuhkan secara rasmi pada 1996, Majlis Sastera Asia Tenggara (Mastera) telah bergerak jauh dalam menghasilkan karya-karya terbaik oleh penulis-penulis Malaysia, Brunei Darussalam dan Indonesia.

**NOVEL** Mahabbah hasil karya Sasterawan Negara (SN) Shahnnon Ahmad, terbitan Dewan Bahasa dan Pustaka (DBP) 2007 terpilih sebagai karya sastera kreatif terbaik negara Malaysia dan menerima Hadiah Sastera Majlis Sastera Asia Tenggara (MASTERA) Ke-6, 2010.

Bagi negara Brunei Darussalam, Tawaduk Musim Sujud pula melayakkan Haji Mohd. Salleh Abdul Latif menerima Hadiah Sastera MASTERA 2010.

Penerima Hadiah Sastera MASTERA 2010 bagi negara Indonesia pula dimenangi oleh D. Zawawi Imron dengan buku kumpulan puisi bertajuk *Kelenjar Puisi*



Dr. Shahnom (gambar kiri) dan Haji Mohd. Salleh (gambar kanan) seang menerima hadiah ddrp Menteri Pelajaran Malaysia



Zawawi Imron sedang menerima Hadiah drp Menteri Pendidikan Malaysia

Penerima Anugerah Sastera MASTERA 2008: Dato' Dr. Siti Hawa Hj. Salleh

Penerima Anugerah Sastera MASTERA 2006: Tan Sri Dato' Prof. Emeritus (Dr.) Ismail Hussein

Hadiah Mastera bahagina kreatif dan bukan kreatif yang lepas ialah tahun 2007 (disiarkan di dalam WB PERSAMA 2007) dan untuk 2009 masih belum disiarkan (sehingga Jun 2010)

Sumber: <http://mastera.dbp.gov.my/mmmm.html>

%%%%%%%%%

## Jualan Laris NYT 2010

<http://www.hawes.com/pastlist.htm>; <http://www.hawes.com/number1s.htm>;

[http://www.hawes.com/no1\\_f\\_d.htm](http://www.hawes.com/no1_f_d.htm)

### Julai-Disember 2010:

*The Overton Window* by Glenn Beck (Threshold Editions) - [July 4, 2010](#)

*Sizzling Sixteen* by Janet Evanovich (St. Martin's) - [July 11, 2010](#)

*Private* by James Patterson and Maxine Paetro (Little, Brown) - [July 18, 2010](#)

*The Search* by Nora Roberts (Putnam) - [July 25, 2010](#)

*The Rembrandt Affair* by Daniel Silva (Putnam) - [August 8, 2010](#)

*The Postcard Killers* by James Patterson and Liza Marklund (Little, Brown) - [September 5, 2010](#)

*Freedom* by Jonathan Franzen (Farrar, Straus & Giroux) - [September 19, 2010](#)

*Safe Haven* by Nicolas Sparks (Grand Central) - [October 3, 2010](#)

*Fall of Giants* by Ken Follett (Dutton) - [October 17, 2010](#)

*The Reversal* by Michael Connelly (Little, Brown) - [October 24, 2010](#)

*American Assassin* by Vince Flynn (Atria) - [October 31, 2010](#)

*Worth Dying For* by Lee Child (Delacorte) - [November 7, 2010](#)

*The Confession* by John Grisham (Doubleday) - [November 14, 2010](#)  
*Towers of Midnight* by Robert Jordan and Brandon Sanderson (Tor) - [November 21, 2010](#)  
*Hell's Corner* by David Baldacci (Grand Central) - [November 28, 2010](#)  
*Cross Fire* by James Patterson (Little, Brown) - [December 5, 2010](#)  
*Port Mortuary* by Patricia Cornwell (Putnam) - [December 19, 2010](#)  
*Dead or Alive* by Tom Clancy with Grant Blackwell (Putnam) - [December 26, 2010](#)

## 10 buah buku terbaik NYT 2010

5 Cereka:

[FREEDOM](#), Jonathan Franzen. Farrar, Straus & Giroux  
[THE NEW YORKER STORIES](#), Ann Beattie. Scribner  
[ROOM](#), Emma Donoghue. Little, Brown & Company  
[SELECTED STORIES](#), William Trevor. Viking,  
[A VISIT FROM THE GOON SQUAD](#), Jennifer Egan. Alfred A. Knopf

5 Bukan cereka

[APOLLO'S ANGELS: A History of Ballet](#), Jennifer Homans. Random House  
[CLEOPATRA: A Life](#), Stacy Schiff. Little, Brown & Company  
[THE EMPEROR OF ALL MALADIES: A Biography of Cancer](#), Siddhartha Mukherjee. Scribner  
[FINISHING THE HAT: Collected Lyrics \(1954-1981\) With Attendant Comments, Principles, Heresies, -  
 Grudges, Whines and Anecdotes](#), Stephen Sondheim.  
 Alfred A. Knopf,  
[THE WARMTH OF OTHER SUNS: The Epic Story of America's Great Migration](#), Isabel Wilkerson. Random  
 House,

## 10 di atas USA Today

*The Girl With the Dragon Tattoo*, Stieg Larsson  
*The Girl Who Played With Fire*, Stieg Larsson  
*The Girl Who Kicked the Hornet's Nest*, Stieg Larsson  
*Decision Points*, George W. Bush  
*The Last Song*, Nicholas Sparks  
*Diary of a Wimpy Kid: The Ugly Truth*, Jeff Kinney  
*Eat, Pray, Love*, Elizabeth Gilbert  
*Dear John*, Nicholas Sparks  
*The Help*, Kathryn Stockett  
*Breaking Dawn*, Stephenie Meyer

## Jualan Laris Amazon.com 2010

### 10 di atas Pelanggan

[The Girl Who Kicked the Hornet's Nest](#), Stieg Larsson  
[Women Food and God: An Unexpected Path to Almost Everything](#), Geneen Roth  
[Mockingjay \(The Final Book of The Hunger Games\)](#), Suzanne Collins  
[Dead in the Family \(Sookie Stackhouse/True Blood, Book 10\)](#), Charlaine Harris  
[The Big Short: Inside the Doomsday Machine](#), Michael Lewis  
[Game Change: Obama and the Clintons, McCain and Palin, and the Race of a Lifetime](#)  
 John Heilemann  
[The Short Second Life of Bree Tanner: An Eclipse Novella \(The Twilight Saga\)](#)  
 Stephenie Meyer  
[Freedom: A Novel](#), Jonathan Franzen  
[Sh\\*t My Dad Says](#), Justin Halpern  
[The Immortal Life of Henrietta Lacks](#), Rebecca Skloot

### 10 di atas bukan cereka

[WAR](#) , [Sebastian Junger](#)

[Country Driving: A Journey Through China from Farm to Factory](#) , [Peter Hessler](#)

[Play Their Hearts Out: A Coach, His Star Recruit, and the Youth Basketball Machine](#)

[George Dohrmann](#)

[The Devil and Sherlock Holmes: Tales of Murder, Madness, and Obsession](#)

[David Grann](#)

[Travels in Siberia](#), [Ian Frazier](#)

[Game Change: Obama and the Clintons, McCain and Palin, and the Race of a Lifetime](#)

[John Heilemann](#)

[Extra Lives: Why Video Games Matter](#), [Tom Bissel](#)

[Being Wrong: Adventures in the Margin of Error](#), [Kathryn Schulz](#)

[The World According to Monsanto: Pollution, Corruption, and the Control of the World's Food Supply](#) , [Marie-](#)

[Monique Robin](#)

[Poisoning the Press: Richard Nixon, Jack Anderson, and the Rise of Washington's Scandal Culture](#) , [Mark Feldstein](#)

### 10 buah buku sains laris jualan 2010/ minta “best books science top ten”

[The Immortal Life of Henrietta Lacks](#) by [Rebecca Skloot](#)

[Packing for Mars: The Curious Science of Life in the Void](#) by [Mary Roach](#)

[The Emperor of All Maladies: A Biography of Cancer](#) by [Siddhartha Mukherjee](#)

[The Disappearing Spoon: And Other True Tales of Madness, Love, and the History of the World from the Periodic](#)

[Table of the Elements](#) by [Sam Kean](#)

[Quantum: Einstein, Bohr, and the Great Debate about the Nature of Reality](#)

by [Manjit Kumar](#)

[The Grand Design](#) by [Stephen Hawking](#)

[The Mind's Eye](#) by [Oliver Sacks](#)

[The Evolution of Childhood: Relationships, Emotion, Mind](#) by [Melvin Konner](#)

[Long for This World: The Strange Science of Immortality](#) by [Jonathan Weiner](#)

[Here's Looking at Euclid: A Surprising Excursion Through the Astonishing World of Math](#) by [Alex Bellos](#)

### 10 buku Kesusasteraan dan Cereka Laris Jualan 2010

[Matterhorn: A Novel of the Vietnam War](#), [Karl Marlantes](#)

[Freedom: A Novel](#), [Jonathan Franzen](#)

[To the End of the Land](#), [David Grossman](#)

[The Imperfectionists: A Novel](#) , [Tom Rachman](#)

[Major Pettigrew's Last Stand](#), [Helen Simonson](#)

[The Hand That First Held Mine](#), [Maggie O'Farrell](#)

[Skippy Dies: A Novel](#) , [Paul Murray](#)

[One Day \(Vintage Contemporaries Original\)](#), [David Nicholls](#)

[Memory Wall: Stories](#), [Anthony Doerr](#)

[The Lonely Polygamist: A Novel](#), [Brady Udall](#)

### 12 buah buku Sains Matematik Laris Jualan 2010

[Calculations for Molecular Biology and Biotechnology, Second Edition: A Guide to Mathematics in the Laboratory...](#) by [Frank H. Stephenson](#)

**A Survey of Industrial Mathematics** by [Charles R. MacCluer](#)

[An Introduction to Information Theory \(Dover Books on Mathematics\)](#) by [Fazlollah M. Reza](#)  
[Mathematics and Sports \(Dolciani Mathematical Expositions\)](#) by Joseph A. Gallian  
[Student's Solutions Manual for Finite Mathematics for Business, Economics, Life Sciences and Social Sciences](#) by  
 Raymond A. Barnett, Michael R. Ziegler and Karl E. Byleen  
[A Mathematical Tapestry: Demonstrating the Beautiful Unity of Mathematics](#) by Peter Hilton, Jean Pedersen  
 and Sylvie Donmoyer  
[Mathematics 1001: Absolutely Everything That Matters About Mathematics in 1001 Bite-Sized Explanations](#) by  
 Dr. Richard Elwes  
[Language and Mathematics Education: Multiple Perspectives and Directions for Research \(Research in Mathematics...\)](#) by Judit N. Moschkovich  
[Developmental Mathematics \(2nd Edition\) \(The Martin-Gay Paperback Series\)](#) by Elayn Martin-Gay  
[The Crest of the Peacock: Non-European Roots of Mathematics \(Third Edition\)](#) by [George Gheverghese Joseph](#)  
[Mathematics for Finance: An Introduction to Financial Engineering \(Springer Undergraduate Mathematics Series\)](#)  
 by Marek Capinski and Tomasz Zastawniak  
[Fundamentals of Actuarial Mathematics](#) by [S. David Promislow](#)  
[The Best Writing on Mathematics 2010](#) by Mircea Pitici and William P. Thurston

### THE 2011 BRITISH BOOK AWARDS WINNERS in 12 categories

The British Book Awards were founded and are still organised by Publishing News – the leading weekly magazine for the book trade. The Event is being produced and filmed by Cactus TV.

The British Book Awards are the publishing industry's equivalent to the BAFTAs and are the glitziest event in the UK book industry's calendar. The awards celebrate the nation's favourite books, authors and publishers.

### The Booker Prize 2010

The Man Booker Prize for Fiction, also known in short as the Booker Prize, is a literary prize awarded each year for the best original full-length novel, written in the English language, by a citizen of either the Commonwealth of Nations or the Republic of Ireland. The prize was originally known as the **Booker-McConnell Prize** after the company Booker-McConnell began sponsoring the event in 1968, and became commonly known as the "Booker Prize" or simply "the Booker". When administration of the prize was transferred to the Booker Prize Foundation in 2002, the title sponsor became the investment company Man Group, which opted to retain "Booker" as part of the official title of the prize. The prize money awarded with the Booker Prize was originally £21,000, and was subsequently raised to £50,000 in 2002 under the sponsorship of the Man Group

**Pemenang the Man Booker Prize 2010 ialah Howard Jacobson dng novelnya, *The Finkler Question***

Pemenang dahulu:

2009 ialah Hilary Mantel dengan novelnya [Wolf Hall](#).

2008: Aravind Adiga kerana novelnya [The White Tiger](#)

2007: [Anne Enright](#) kerana novelnya [The Gathering](#).

2006: [Kiran Desai](#) kerana novelnya [The Inheritance of Loss](#).

2005: [John Banville](#) kerana novelnya [The Sea](#)

2004: [Alan Hollinghurst](#) kerana novelnya [The Line of Beauty](#) [Life of Pi](#) (2002) dan [Vernon God Little](#) (2003)

### Pulitzer Prize 2010:

(Khas untuk pengarang Amerika Syarikat dng hadiah USD10 ribu)

Pemenang **bahagian cereka** ialah **Paul Harding** dng karyanya, *Tinkers*; manakala **bahagian bukan cereka** ialah **David E. Hoffman** dng karyanya, *The Dead Hand: The Untold Story of the Cold War Arms Race and Its Dangerous Legacy* (Doubleday)

Pemenang dahulu:

2009: Cereka: [Olive Kitteridge](#) by [Elizabeth Strout](#) (Random House)

- Bukan Cereka:** [\*Slavery by Another Name: The Re-Enslavement of Black Americans from the Civil War to World War II\*](#) by [Douglas A. Blackmon](#) (Doubleday)
- 2008: **cereka:** [\*The Brief Wondrous Life of Oscar Wao\*](#) by [Junot Diaz](#) (Riverhead Books)  
**bukan cereka:** [\*The Years of Extermination\*](#) by [Saul Friedlander](#) (HarperCollins)
- 2007: *The Road* by Cormac McCarthy 2006  
 2006: *March* by Geraldine Brooks;  
 2005: *Gilead* by Marilynne Robinson;  
 2004: *The Known World* by Edward P. Jones;  
 2003: *Middlesex* by Jeffrey Eugenides;  
 2002: *Empire Falls* by Richard Russo; 2  
 2001: *The Amazing Adventures of Kavalier & Clay* by Michael Chabon;  
 2000: *Interpreter of Maladies* by (an Indian American) Jhumpa Lahiri.

## Buku-buku Sains Matematik Melayu 2011

Amatlah menyedihkan dan memalukan, daripada ribuan ahli sains matematik Malaysia amatlah sedikit (tidak sampai 20 buah!) buku sains matematik yang terhasil setiap tahun berlalu. Nampaknya mereka tidak berkarya dalam bentuk penulisan buku dalam bahasa kebangsaannya sendiri kerana kegersangan swa-kesedaran dan swa-keinsafan mereka terhadap keperluan membina tamadun bangsanya. Berikut ialah buku-buku yang dapat kami jumpai penerbitannya dalam tempoh 2011.

### UKM

- Matematik Kewangan: Aplikasi terhadap Kewangan Islam dan Konvensional. 2011. Penerbit UKM: Bangi. ISBN 978-967-942-992-3 (kulit lembut). 264 halaman. Zaidi Isa & Noriza Majid (suntingan).
- Reka Bentuk Sistem Kewangan Islam: Infrastruktur Pendokong dan Kesan Zakat. 2011. Penerbit UKM: Bangi. ISBN 978-967-412-002-3 (kulit lembut). 80 halaman. [Syarahan Perdana](#). Abdul Ghafar Ismail.
- Memperluas Jelajahan Memperkaya Khazanah Ilmu. 2011. Penerbit UKM: Bangi. ISBN 978-967-942-980-0 (kulit lembut). 80 halaman. RM 20.00. [Syarahan Perdana](#). Abdul Aziz Jemain.
- Ekonomi Islam: Satu Pendekatan Analisis. 2011. Penerbit UKM: Bangi. ISBN 978-967-942-966-4 (kulit lembut). 248 halaman. RM 35.00. Jaafar Ahmad, Sanep Ahmad & Hairunnizam Wahid.
- Memburu Kualiti Perisian.** 2011. Penerbit UKM: Bangi. ISBN 978-967-942-967-1 (kulit lembut). 76 halaman. RM 20.00. [Syarahan Perdana](#). Aziz Deraman

### UM & USM: Tiada

**UPM:** Peribahasa Melayu. Penelitian Makna dan Nilai oleh Zaitul Azma Zainon Hamzah & Ahmad Fuad Mat Hassan

### UTM:

- Sistem Asas Pengukuran Kejuruteraan Elektrik oleh Ruzairi Abdul Rahim, Herlina Abdul Rahim, Shafishuhaza Sahlan
- Sistem Pangkalan Data oleh Halina Mohamed Dahlan, Ab Razak Che Hussin, Md Hafiz Selamat, Mohd Shahizan Othman, Nor Hawaniah Zakaria, Roliana Ibrahim, Mahadi Bahari
- Sistem Terbenam dengan Mikropemproses 68000 oleh Muhammad Mun'im Ahmad Zabidi

### UiTM:

- Juruukur penilaian dan proses pembangunan hartanah oleh Mohd Hasrol Haffiz Aliasak
- Teknik penghasilan "layout" novel grafik asas dan teknik oleh Rafuzan Jaafar

### DBP: Tiada

**Inst Terj. Negara:**

\*Projek Sains: Daya dan Gerakan. *Science Projects: Forces and Motion* oleh Kelly Milner Halls  
 Sains Fizikal Secara Mendalam: Daya dan Gerakan. David L. Dreier  
 \*Siri Asas Sains ITNM Fizik: Bunyi dan Getaran. *Sound and Vibrations* oleh Gerard Cheshire  
 \*Siri Asas Sains ITNM - Fizik: Daya dan Gerakan. *Forces and Motion* oleh Gerard Cheshire  
 \*Siri Asas Sains ITNM - Fizik: Tenaga dan Jirim. *Energy and Matter* oleh Gerard Cheshire  
 Siri Fokus Sains ITNM: Teknologi Digital. *Digital Technology* oleh Chris Woodford

\* buku peringkat sekolah

**BUKU-BUKU SAINS MATEMATIK PILIHAN TERBITAN 2008**  
**(sambungan WB 16(1))**

**Sains Matematik Kabur, Kasar dan Tegap (*Fuzzy, Rough and Robust Mathematical Sciences*)**

***Mantik Kabur / Fuzzy Logic***

An intro. to many-valued and fuzzy logic: semantics, algebra, and derivation sistem, Bergman M. CUP  
 Dynamic fuzzy logic and its applications, Li F. Nova Sc. Pub.  
 Fuzzy implications, Bacynski M & Jayaram B. Springer  
 Proof theory for fuzzy logic, Metcalf G. drk. Springer  
 Type-2 fuzzy logic: theory and applications, Castillo O. & Melin P. Springer

***Matematik Kabur, Tegap dan Lasak Am /General Fuzzy, Robust and Rough Mathematics***

Applying fuzzy mathematics to formal models in comparative politics, Clark T.D drk. Springer  
 Application of fuzzy logic in bioinformatics, Xu D. drk. Imperial College Press  
 Fuzzy logic and neural networks: basic concept and applications, Alavala C.R. New Age Internat. Pvt. Ltd Pub.  
 Integrating truth-space diagram and fuzzy logic: a novel approach to assess linguistic rules, Arora G. VDM Verlag  
 Neural cell behavior and fuzzy logic: the being of neural cells and mathematics of feeling, Sandler U. & Tsitolovsky L. Springer

***Pengaturcaraan/Pengoptimuman Kabur atau Tegap (Fuzzy or Robust Programming/Optimization)***

Discrete optimization with interval data: minimax regret and fuzzy approach, Kasperski A. Springer  
 Fuzzy logic: Theory, programming and applications, Vargas R.E. (Pnyut.). Nova Sc. Pub. Inc  
 Monte Carlo methods in fuzzy optimization, Buckley J.J. & Joowers L.J. Springer

***Sn Matema Kabur dlm/drp Ekonomi, Pengurusan dan Perniagaan***

Fuzzy engineering economics with applications, Kahraman C. (Pnyut.). Springer  
 Soft computing applications in business, Prasad B. Springer  
 (Lihat juga WB 16(1) di bawah matematik ekonomi/ekonomi matematik)

***Sn Matema Kabur dlm/drp Industri dan Kejuruteraan***

Fuzzy information and engineering Vol.1., Cao B drk. (Pnyut.). Springer  
 Soft computing: techniques and its applications in electrical engine. Chaturvedi D.K. Springer  
 Soft computing applications in industry, Prasad (Pnyut.) Springer.

***Sn Matematik Kabur/Lasak/Tegap dlm Sn Komputer (Fuzzy/Rough/Robust Math Sc.), Komputeran Lembut (Soft Computing), Komputeran Granul (Granular Computing), Kaedah Tegap (Robust Method)***

Artificial intelligence and soft computing, Konar A. Ane Books

Granular computing: at the junction of rough sets and fuzzy sets, Bello R. drk (Pnyut.). Springer

Knowledge processing with interval and soft computing, Hu C. drk (Pnyut.). Springer

Soft computing, Srivastava A.K. Nova Pub. House

Soft computing: new research, Giordano A.J. & Costa G.E. Nova Sc. Pub.

Soft computing for know;edge discovery and data mining, Oded/Rokach & Maimon L. Springer

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**Sains Matematik Pendidikan /Pendidikan Sains Matematik**

Ini drp judul “mathematical science education”/pendidikan sains matematik “mathematical education” (tetapi banyak yg tak relevan), dan yang lainnya “x education” {x=mathematics, statistics, computer science] seperti “mathematics education” (pun banyak yg tak relevan), manakala “educational x” masing-masingnya sebuah-dua sahaja. Berikut ialah pilihan kami untuk penerbitan 2008

***Matematik Berpendidikan/Educational Mathematics***

Interdisciplinary educational research in maths and its connections to arts and sc., Sriraman drk. (Pnyut.). Information Age Pub

***Pendidikan Bermatematik/Mathematical Education***

Tiada

***Pendidikan Matematik/Mathematics Education.***

Didactical phenomenology of mathl. Structures, Freudenthal H. Springer

Internationalisation and globalization in maths and sc. Education, Atweh B. drk. (Pnyut.). Springer

Maths. And human condition: integrating high school maths with cultural ed., Selby V.M. Park Place Pub.

New directions for situated cognition in maths ed., Watson A. & Winbourne P (Pnyut.). Springer

Semiotiucs in maths ed., Redford L. drk. (Pnyut.). Sense Pub.

Teaching maths in multicultural classrooms, Adler J.B. Springer

The psychology of maths ed. : A psychoanalytic displacement, Brown T. (Pnyut.). Sense Pub.

University sc. And maths., Skovsmose O. drk. (Pnyut.). Springer

***Pendidikan Matematik Tulen***

Algebra lesson: What we learned through research, Lee J. Information Age Pub.

Didactical phenomenology of mathl. Structures, Freudenthal H. Springer

***Pendidikan Sn Komputer***

Computer sc. Ed. Research at the crossroads: a methodological review of comp. sc. Ed. Reaserach, Randolph U. VDM Verlag Dr. muller

***Pendidikan Matematik Kejuruteraan/Engineering Mathematics Education***

Handbook of design research methods in ed: Innovation in sc, Technolgy, Engin. and maths learning and teaching, Kelly A.E. drk. (Pnyut.). Routledge

On the outskirts of engine: learning identity, gender, and power via engine practice, Tonso K.L. Sense Pub.

***Pendidikan Statistik***

Research method and statistics: A critical thinking approach. 3rded. , Jackson S.L.Wadsworth Pub.

### ***Pendekatan Pembelajaran dan Pengajaran Sn Matematik***

Selain drp yag disenarai di atas:

Mathematical difficulties: Psychology and intervention, Dowker A. & Phye G.D. (Pnyut.). Acad Press

Mathl literacy: Developing identities of inclusion, Solomon Y. Routledge

Reforming learning: Concepts, issue and practice in the AsiaPacific Region, Ng C-H.C. Springer

Rigorous mathl thinking: Conceptual formation in the maths classroom, Kinard J.T. & Kozulin A. CUP

### ***Kaedah Binais/Constructivist Method***

Educational psychology: An application of critical constructivism, t.p. Ptr Lang Pub

Maths teacher practices and the impact of computer technology: Technoogy use and constructivism, Burell M.  
VDM Verlag

Radical constructivism, Quale A. Sense Pub.

### ***Kaedah Menyelesaikan/Mengajukan Masalah (Problem Solving/Posed Method)***

Finite element methods for eng. Sc. : Theoretical approach and problem solving techniques, Chaskalovic J. Springer

Teaching and learning through problem solving methods, Wahwa S. Pub. House

### ***Kaedah (Sn dan Matematik) Nuffield/Nuffield sc and mathematics Method***

Tiada

### ***Pembelajaran Berasaskan Masalah (Problem Based Learning)***

A practical guide to problem-based online learning, Savin-Baden M. Routledge

Perceptions of and attitudes towards adoption of problem-based learning: Perceptions of problem-based learning and attitudes towards it adoption among ... in Seventh-day Adventist Schools in Florida, Pilliner E. VDM Verlag

Problem-based learning and creativity, Tan O-S. Cengage Learning Asia

Problem-based learning in middle and high school classroom, Lambros A. Hawker Brownlow Edu. Pty. Ltd

Puzzle-based learning: Intro. To critical yhinking maths, an dproblem solving, Michalewicz Z. & M. Hybrid Pub.

Solving Maths word problems: Teaching students with learning disabilities using schema-based instruction, Jatendra A.K. Pro ed

### ***Matematik Berkenyatan (Realistic Mathematics)***

Tiada

### ***Matemadesa***

Tiada

### ***Pelbagai kaedah pendidikan/pengajaran/pembelajaran***

Crea tivity, Giftedness, and talent development in maths (HC) , Sriraman B. Information Age Pub.

Handbook of design research methods in ed: Innovation in sc, Technolgy, Engin. and maths learning and teaching,  
Kelly A.E. drk. (Pnyut.). Routledge

Teaching maths through reading: Methods and materials for grades 6-8. Wallace F. & Shivertaker J. Linworth Pub.

Understanding teacher expertise in primary sc: a sociocultural approach, Traianou A. Sense Pub.

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## **Sejarah dan Falsafah Sains Matematik**

Buku kategori ini dipetik darpd senarai “history of x” , “philosophy of x” dan “history and philosophy of x” dengan  
x = mathematical science, mathematics, statistics, probability, prob & stat, computer science, information

technology, mathematical physics, management science, management, economics, business, dan finance. Semuanya bertindan terutamanya dgn x=mathematics itu.

### ***Sej & Fal Kb & Stat/History & Philosophy of Prob & Stats***

Di petik darp senarai “history of x”, x= statistics, probability dan “philosophy of x”

### ***Sej. Kb & Stat/ History of Prob & Stats***

Todhunter I. 2008. A History Of The Mathematical Theory Of Probability: From The Time Of Pascal To That Of Laplace (1865). Kessinger Publishing, LLC

### ***Fal. Kb & Stat/Philosophy of Prob & Stats***

#### ***Laris***

de Finetti B. 2008. Philosophical Lectures on Probability: collected, edited, and annotated by Alberto Mura. Hykel Hosni (Penterj.). Springer

Reichenbach H. 2008. The Concept of Probability in the Mathematical Representation of Reality . Terj. Frederick Eberhardt & Clark Glymour. Open Court

#### ***Baru***

Gigerenzer G. 2008. Rationality for Mortals: How People Cope with Uncertainty. OUP, USA

Ziliak S.T. & McCloskey D.N. 2008. The Cult of Statistical Significance: How the Standard Error Costs Us Jobs, Justice, and Lives. University of Michigan Press

### ***Sej & Fal Matema Industri & Kejuruteraan/History & Philosophy of industrial & Engineering mathematics***

### ***Sej & Fal/Fil dlm Matemat Industri dan Kejuruteraan/Rakayasa***

#### ***Tiada***

### ***Fal Matema Industri/Philosophy of Industrial Maths***

Cotgrove S & S & Box. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Science Industry and Society: Studies in the Sociology of Science. Vol. 7. Routledge

### ***Fal (Matema) Kejut/Teknologi (Philosophy of Engineering (Maths)/ Technology)***

Dalian University of Technology. 2008. Engineering Technology Philosophy. Dalian University of Technology

Phillips J. (Pnyut.). 2008. Philosophical Perspectives on Technology and Psychiatry. OUP, USA

### ***Sej (Matema) Industri***

Petroski H. 2008. Success through Failure: The Paradox of Design. Princeton University Press

### ***Sej (Matema) Kejut/History of Engineering (Maths)***

#### ***Laris***

Thrower N.J.W. 2008. Maps and Civilization: Cartography in Culture and Society. 3<sup>rd</sup> ed. University Of Chicago Press

#### ***Baru***

Alexander J.K. 2008. The Mantra of Efficiency: From Waterwheel to Social Control. Johns Hopkins University Press

Brenner B.R. 2008. Leadership and Management in Engineering. Amer Society of Civil Engineers

Chajes M., drk. (Pnyut.). 2008. The Mechanics Of Solids: History and Evolution: A Festschrift in Honor of Arnold D. Kerr. University of Delaware

Hillier A. & Knowles A.K. (Pnyut.). 2008. Placing History: How Maps, Spatial Data, and GIS Are Changing Historical Scholarship . ESRI Press

O’reagan G. 2008. A Brief History of Computing. Springer

Paipettis S.A. (Pnyut.). Science and Technology in Homeric Epics .Springer

- Pappas T. 2008. Mathematical Snippets: Exploring mathematical ideas in small bites. Wide World Publishing, Tetra
- Selin S. (Pnyut.). 2008. Encyclopaedia of the History of Science, Technology, and Medicine in Non-Western Cultures 2 Volume Set. Springer
- Woods W.D. 2008. How Apollo Flew to the Moon. Springer

### ***Sej & Fal Matema Fiz*** (sekitar 46 buah)

Dipetik drp senarai “history and philosophy of x”,  $x =$  mathematical physics, physical mathematics atau physicomathematics ; “history of x”,  $x =$  physics, mathematics. Di bawah kata kunci “philosophy of x”

#### ***Fal Fiz***

- Buckley P & F.D. & Peat. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Glimpsing Reality: Ideas in Physics and the Link to Biology. Vol. 4. Routledge
- Evert A. 2008. Ether-Physics and –Philosophy. BoD
- Jeans J. 2008. Physics and Philosophy. CUP
- Karnap. 2008. Philosophical foundation of physics An introduction to the philosophy of science. Per. from English. Izdatelstvo LKI

#### ***Sej & Fal Fizik***

- Ivey J.F. 2008. Things Are Not as They Seem: How science, philosophy, and history, particularly modern physics, CreateSpace

#### ***Sej Fiz***

- Brush S.G. 2008. A History of Modern Planetary Physics: Volume 2 & 3. CUP

### ***Sej & Fal. Matema/History & Phil. of Maths***

Dipetik drp senarai “history and philosophy of mathematics”, “philosophy of mathematics”, “history of mathematics” dan “logic” .

#### ***Laris***

- Kac M. , [Rota](#) G-C. & [Schwartz](#) J.T. 2008. Discrete Thoughts: Essays on Mathematics, Science and Philosophy. 2<sup>nd</sup> ed. Birkhäuser Boston

#### ***Baru***

- Marquis J-P. 2008. From a Geometrical Point of View: A Study of the History and Philosophy of Category Theory. Springer

### ***Sej Matema***

#### ***Laris***

- Hairer E. & Wanner G. 2008. Analysis by Its History. 2<sup>nd</sup> Printing . Springer
- Katz V.J. 2008. A History of Mathematics. 3<sup>rd</sup> ed. Pearson
- Smith D.E. 2008. History of Modern Mathematics . 4<sup>th</sup> ed. Merchant Books

#### ***Baru***

- Howson G. 2008. A History of Mathematics Education in England. CUP
- Robson E. 2008. Mathematics in Ancient Iraq: A Social History .Princeton Univ. Press
- Sivin N. 2008. Granting the Seasons: The Chinese Astronomical Reform of 1280, With a Study of Its Many Dimensions and a Translation of its Records. Springer

### ***Fal. Matema***

- Brown J.R. 2008. Philosophy of Mathematics: A Contemporary Introduction to the World of Proofs and Pictures. Routledge
- Gold B. & Simons R.A. 2008. Proof and Other Dilemmas: Mathematics and Philosophy (Spectrum). Mathematical Association of America
- Miller L.B. 2008. Realism: A Philosophy of Mathematics. Lulu.com

### ***Sej & Fal Sn Ekonomi, Pengurusan/Manajemen dan yg berhubungan dgnnya***

Dipetik drp senarai “history and philosophy of economics”, “history of economics”, “history of economics thought” dan “philosophy of economics”

#### ***Sejarah ekonomi***

##### ***Laris***

Bo Sandelin drk. 2008. A Short History of Economic Thought 2nd Edition. Routledge

Gupta K.R. 2008. Economics of Development and Planning: History, Principles, Problems and Practices. Atlantic Publishers & Distributors (P) Ltd.; 4th Rev. & Enlarged Ed. edition

##### ***Baru***

Bohm-Bawerk E.V. 2008. Capital and Interest: A Critical History of Economic Theory. Dodo Press (Terj. drp Jerman)

Bowen B.R. & , [Mehmet Ufuk Tutan](#). 2008. History of Economic Thought. VDM Verlag Dr. Mueller e.K

Campbell G. 2008. An Economic History of Imperial Madagascar, 1750-1895: The Rise and Fall of an Island Empire. CUP

Lyons J.S. drk (Pnyut.). 2008. Reflections on the Cliometrics Revolution: Conversations with Economic Historians. Routledge.

Masters B. 2008. The Origins of Western Economic Dominance in the Middle East: Mercantilism and the Islamic Economy in Aleppo, 1600-1750. ACLS Humanities E-Book

Rosenbloom J.L. (Pnyut.). 2008. Quantitative Economic History: The good of counting. Routledge

Scheidel W. Drk. (Pnyut.) . 2008. The Cambridge Economic History of the Greco-Roman World. CUP

Van Leur J.C. 2008. Indonesian Trade and Society: Essays in Asian Social and Economic History. ACLS Humanities E-Book

#### ***Falsafah Ekonomi***

Boylan T. & Gekker R. (Pnyut.). 2008. Economics, Rational Choice and Normative Philosophy. Routledge

Hausman D.M. 2008. Essays on Philosophy and Economic Methodology. CUP

Schultz W.J. 2008. The Moral Conditions of Economic Efficiency. CUP

Zanini A. 2008. Economic Philosophy. Peter Lang

### ***Sej & Fal Sn Komputer***

#### ***Sej Sn Komputer***

[Boden](#) M. 2008. Mind as Machine: A History of Cognitive Science. OUP, USA

#### ***Fal. Sn Komputer***

Epstein R., [Roberts](#) G. & [Beber](#) G. (Pnyut.). 2008. Parsing the Turing Test: Philosophical and Methodological Issues in the Quest for the Thinking Computer. Springer

Marek V. W. , Mirkowska G., Salwicki A., Wolenski J. & Krajewski (Pnyut.). 2008. Topics in Logic, Philosophy and Foundations of Mathematics and Computer Science. Ios Pr Inc

#### ***Fal. Sn. Maklumat***

Adriaans P. & van Benthem J.F.A.K. (Pnyut.). 2008. Philosophy of Information. North Holland

van den Hoven J. & Weckert J. (Pnyut.). 2008. Information Technology and Moral Philosophy. CUP

Weller T. 2008. Information History - An Introduction: Exploring an Emergent Field. Woodhead-Chandos

#### ***Sej. Sn. Maklumat***

Dudley L. 2008. Information Revolutions in the History of the West Edward Elgar Pub

### ***Sej & Fal Sn Matema dlm/drpsn Hayat dan Perubatan***

Drpd senarai “history of life sciences”, “philosophy of life sciences”, “history/philosophy of bioethics” “philosophy of medical sciences” dan “history of medical sciences”.

### **Sej & Fal. Sn Hayat**

Agutter P.S. & Wheatley D.N. 2008. Thinking about Life: The history and philosophy of biology and other sciences. Springer

### **Fal. Sn Hayat**

Beurton P.J. drk. (Pnyut.). 2008. The Concept of the Gene in Development and Evolution: Historical and Epistemological Perspectives. CUP

Garvey B. 2008. Philosophy of Biology. McGill-Queen's University Press

Rottschaefer W.A. 2008. The Biology and Psychology of Moral Agency. CUP

### **Fal Sn Perubatan/Philosophy of Medical Sc.**

[La Fleur](#) W.R., [Bahme](#) G. & [Shimazono](#) S. (Pnyut.). 2008. Dark Medicine: Rationalizing Unethical Medical Research. Indiana University Press

Lantos J.D. & Meadow W.L. 2008. Neonatal Bioethics: The Moral Challenges of Medical Innovation. The Johns Hopkins University Press

### **Sejarah Sains Perubatan/History of Medical Sc.**

Tiada

### **Sej & Fal Sn Matema Kewangan/History and Philosophy Finance Math. Sc.**

Drp senarai “history and philosophy of Finance”, “history and philosophy of economics”. “history of finance” and “philosophy of finance”.

### **Falsafah kewangan**

Kochard L.E. & Ritterer C.M. 2008. Foundation and Endowment Investing: Philosophies and Strategies of Top Investors and Institutions. Wiley

### **Sejarah kewangan**

Cendrowski H. drk. 2008. Private Equity: History, Governance, and Operations. Wiley

Feldman G.D. & Hertner P. 2008. Finance and Modernization. Ashgate

Toninelli P.A. (Pnyut.). 2008. The Rise and Fall of State-Owned Enterprise in the Western World. CUP

### **Sej & Fal Sn Matema Niaga (History and Philosophy of Business Math Sc )**

“History and philosophy of business” bertindan hebat dng “history and philosophy of economics”. Jadi dilihat “history of business” dan “philosophy of business” secara berasingan.

### **Sej Niaga/History of Business**

Murray D. 2008. Chapters In The History Of Bookkeeping, Accountancy & Commercial Arithmetic. Martino Pub

### **Fal Niaga/Business Philosophy**

Kochard L.E. 2008. Foundation and Endowment Investing: Philosophies and Strategies of Top Investors and Institutions. Wiley

### **Sej & Fal Sn Pengurusan/History & Philosophy of Mngmt Sc**

#### **Sej. & Fal POP**

### **Sejarah pengurusan**

#### **Laris**

Kleiner A. 2008. The Age of Heretics: A History of the Radical Thinkers Who Reinvented Corporate Management. Jossey-Bass; 2 edition

Wren D.A. & Bedeian A.G. 2008. philosophy of management science. 6<sup>th</sup> ed. Wiley

### **Baru**

Dornbusch R. & Draghi M. 2008. Public Debt Management: Theory and History. CUP

Usui K. 2008. The Development of Marketing . Ashgate

### **Falsafah pengurusan**

Tompkins A. 2008. The Philosophy of School Management . BiblioLife

### **Falsafah kepemimpinan**

Chen C-C. & Lee Y-T. (Pnyut.). 2008. Leadership and Management in China: Philosophies, Theories, and Practices. CUP

### **Sejarah Kepemimpinan.**

Tiada

### **Sej & Fal Sains, Teknologi dan Kejuruteraan/Rekayasa**

Drp senarai “history and philosophy of science”, “history and philosophy of technology”, “history and philosophy of engineering”, philosophy of technology., history of technology , philosophy of technology , history of science dan philosophy of science, history of technology, philosophy of technology

### **Fal Kejut/Rekayasa**

Dalian University of Technology. 2008. Engineering Technology Philosophy. Dalian University of Technology

### **Fal Teknol :**

Korobov V.B., Lugovoy A.A. & Khabibullin K.N. 2008. Philosophy of Science and Technology Lecture notes. Vysshee obrazovanie

Musson A.E. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Science, technology and economic growth in the eighteenth century Vol. 24. Routledge

Zaynudinov S. 2008. Philosophy of Technology in the writings of medieval Tajik scientists. Kompaniya Sputnik

### **Sej & Fal Sn**

Schlesinger G. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Method in the Physical Sciences. Vol. 28. Routledge

### **Sejarah sains**

#### **Baru**

Agassi J. 2008. Science and Its History: A Reassessment of the Historiography of Science. Springer

Chaudhuri B.B. (Pnyut.). 2008. History of Science, Philosophy and Culture in Indian Civilization: Peasant History of the Late Pre-colonial and Colonial India. Pearson Education India

Eichmann K. 2008. The Network Collective: Rise and Fall of a Scientific Paradigm Birkhäuser Basel

Harman P. 2008. RLE: History & Philosophy of Science: 34-Volume Set: The Scientific Revolution. Vol.14. Routledge

Subbarayappa B.V. 2008. The Tradition Of Astronomy In India : Jyotishastra. Vol. IV, Part 4. Munshiram Manoharlal Publishers

### **Falsafah Sains/Philosophy of Science**

#### **Laris**

RLE: History & Philosophy of Science: 34-Volume Set: Induction and Intuition in Scientific Thought. Vol. 22.; Reprint ed. Routledge

Wisdom J.O. (Pnyut.). 2008. RLE: History & Philosophy of Science: 34-Volume Set: Foundations of Inference in Natural Science. Vol. 33. Reprint ed. Routledge

**Baru**

- Gattei S. 2008. Karl Popper's Philosophy of Science: Rationality without Foundations. Routledge
- Joravsky D. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Soviet Marxism and Natural Science: 1917-1932. Vol. 17. Routledge
- Rogers K. 2008. Participatory Democracy, Science and Technology: An Exploration in the Philosophy of Science. Palgrave Macmillan
- Schlesinger G. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Method in the Physical Sciences. Vol. 28. Routledge
- Smart J.J.C. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Philosophy and Scientific Realism Routledge

**Sej & Fal Sn Sosial***Laris*

- [Clark](#) K.J. (Pnyut.). 2008. Readings in the Philosophy of Religion. 2<sup>nd</sup> ed. Broadview Press
- Tudor A. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Beyond Empiricism: Philosophy of Science in Sociology. Reprint ed. Vol. 32 Routledge
- T.Penga?. Idea of a Social Science & Its Relation to Philosophy 4<sup>th</sup> ed. Routledge NY

*baru*

- Almeida M.J. 2008. The Metaphysics of Perfect Beings. Routledge
- [Arnold](#) D. 2008. Buddhists, Brahmins, and Belief: Epistemology in South Asian Philosophy of Religion. Columbia University Press
- Barnes B. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Scientific Knowledge and Sociological Theory. Vol. 2. Routledge
- [Chen](#) C.-C. & [Y Lee](#) Y.-T. (Pnyut.). Leadership and Management in China: Philosophies, Theories, and Practices. CUP
- [Groff](#) R. 2008. Revitalizing Causality: Realism about Causality in Philosophy and Social Science. Routledge
- [Lebedev S. A.](#) 2008. Philosophy of social sciences and humanities. Textbook for High Schools (Vol 2). Akademicheskii Proekt
- Len , Doyal R. & Harris. 2008. RLE: History & Philosophy of Science: 34-Volume Set: Empiricism, Explanation and Rationality: An Introduction to the Philosophy of the Social Sciences ... Vol.10. Routledge
- [Rios](#) D. & [Schmidt-Petri](#) C. (Pnyut.). 2008. Philosophy of the Social Sciences: 5 Questions. Automatic Press / VIP

**Kemanusiaan dan Agama**

- [Moreland](#) J.P. 2008. Consciousness and the Existence of God: A Theistic Argument. Routledge
- Nagasawa Y. & [Wielenberg](#) E. (Pnyut.). 2008. New Waves in Philosophy of Religion. Palgrave Macmillan

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## Ke Arah Mempatautkan Kiambang

| Inggeris                                                                                                             | Melayu Indonesia                                                                   | Melayu Malaysia                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cartesian plane                                                                                                      | bidang Cartesius                                                                   | satah Cartes                                                                                                                                                                 |
| Cartesian product                                                                                                    | {hasil kali/darab}/produk<br>Cartesius                                             | hasil darab Cartesian                                                                                                                                                        |
| Cartesian system of<br>coordintes <sup>+</sup>                                                                       | sistem koordinat Cartesius                                                         | sistem koordinat Cartesian                                                                                                                                                   |
| Cartesian tensor <sup>+</sup><br>Cartesianism <sup>#</sup><br>Cartesianist <sup>#</sup>                              | tensor Cartesius<br>Cartesianisme<br>Cartesianis                                   | tensor Cartesian<br>Cartesianisme<br>Cartesianis                                                                                                                             |
| <b>cartogram</b>                                                                                                     | kartogram                                                                          | kartogram                                                                                                                                                                    |
| <b>cascade<sup>+</sup></b>                                                                                           | riam/kaskade                                                                       | lata; rumbai<br>(MBIM: kaskada;....)<br><br>proses lata                                                                                                                      |
| cascade process                                                                                                      | olahan/proses riam/kaskade                                                         | kes/kasus; kekulit; lapis luar;<br>sarung <sup>+</sup>                                                                                                                       |
| <b>case</b>                                                                                                          | kasus                                                                              | kaedah kasus <sup>+</sup> /kes<br>kajian kasus <sup>+</sup> /kes<br>kaedah kajian kasus <sup>+</sup> /kes<br>alat CASE<br><br>kasus/kes dlm bukti*<br>(MBIM:.....pembuktian) |
| case method <sup>+</sup><br>case study <sup>+</sup><br>case study methode <sup>+</sup><br>CASE tool                  | metode kasus<br>kajian kasus<br>metode kajian kasus<br>perkakas CASE               | wang tunai; tunai<br>akaun tunai<br>wang tunai atas dokumen<br>buku tunai                                                                                                    |
| cases in proof                                                                                                       | kasus/kes dlm bukti                                                                |                                                                                                                                                                              |
| <b>cash<sup>+</sup></b><br>cash account <sup>+</sup><br>cash against document <sup>+</sup><br>cash book <sup>+</sup> | {uang tunai}/kas; tunai/kas<br>akun tunai<br>wang tunai atas dokumen<br>buku tunai |                                                                                                                                                                              |
| cash break-even <sup>+</sup>                                                                                         | impas tunai                                                                        | pulang-modal/impas <sup>+</sup> tunai                                                                                                                                        |
| cash budget <sup>+</sup>                                                                                             | anggaran tunai                                                                     | belanjawan tunai                                                                                                                                                             |
| cash control <sup>+</sup>                                                                                            | kendalian/kontrol/(peng)-<br>awasan tunai/kontan                                   | kawalan tunai                                                                                                                                                                |
| cash cost <sup>+</sup><br>cash cycle <sup>+</sup>                                                                    | biaya/ongkos tunai /kontan<br>daur/siklus tunai/kontan                             | kos tunai<br>daur <sup>+</sup> /kitar tunai<br>diskaun tunai<br>aliran tunai                                                                                                 |

|                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| cash discount <sup>+</sup><br>cash flow <sup>+</sup><br>cash flow analysis <sup>+</sup><br><br>cash flow statement <sup>+</sup><br><br>cash on delivery <sup>+</sup> [C.O.D]<br>cash on hand <sup>+</sup><br>cash prompt <sup>+</sup><br><br>cash reconciliation <sup>+</sup><br><br>cash refund annuity<br><br>cash register <sup>+</sup><br><br>cash report <sup>+</sup><br>cash reserve <sup>+</sup> | abat/diskon(to) tunai/kontan<br>aliran tunai/kontan<br>analisis aliran tunai/kontan<br><br>pernyataan aliran tunai/<br>kontan<br><br>bayar waktu terima<br>uang tunai/kontan di tangan<br>tunai tepat masa?<br><br>rekonsiliasi/penyesuaian<br>tunai/kontan<br><br>anuitas bayar balik tunai/<br>kontan<br><br>daftar/register tunai/kontan<br><br>laporan tunai/kontan<br><br>simpanan tunai/kontan | analisis aliran tunai<br><br>pernyataan aliran tunai<br><br>bayar waktu terima [BWT]<br>wang tunai di tangan<br>tunai tepat masa<br><br>penyesuaian tunai<br><br>anuiti bayar balik tunai<br><br>daftar <sup>+</sup> tunai<br>(MBIM: mesin...)<br><br>laporan tunai<br><br>rizab <sup>+</sup> tunai<br>(MBIM: cadangan....)                                                                                                                                                |
| cash sale <sup>+</sup><br>cash spot <sup>+</sup><br>cash surrender value<br>cash system <sup>+</sup><br>cash value<br>cash-flow <sup>+</sup><br><br>cash-flow budgeting <sup>+</sup><br><br>cashier <sup>+</sup><br><br>Casimir operator <sup>+</sup><br><br><b>casing</b><br><br>Cassinian oval<br><br>casting out <sup>++</sup>                                                                       | jualan tunai/kontan<br>tempat beli tunai/kontan<br>nilai serahan tunai/kontan<br>sistem tunai/kontan<br>nilai tunai/kontan<br>aliran tunai/kontan<br><br>penganggaran aliran-tunai/<br>kontan<br><br>kasir<br><br>operator/pengandar Casimir<br><br>selubung/selongsong<br><br>oval Cassini<br><br>pelenyapan?                                                                                       | jualan tunai<br>tempat beli tunai<br>nilai serahan tunai<br>sistem tunai<br>nilai tunai<br>aliran tunai<br><br>pembelanjawanan* aliran-<br>tunai<br>(MABBIM: belanjawan...)<br><br>juruwang/kasyier<br><br>pengoperasi/operator <sup>+</sup> Casimir<br><br>bekas; tabung; selubung <sup>+</sup> /<br>selongsong <sup>+</sup><br><br>jorong Cassinian<br><br>pembuangan; pelenyapan<br>pelenyapan sembilan<br><br>kasual; sambilan<br>pekerjaan sambilan<br>buruh sambilan |

|                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| casting out of nine<br><br>casual <sup>++</sup><br>casual employment <sup>+</sup><br>casual labour <sup>+</sup><br>casual leave <sup>+</sup><br>casual worker <sup>+</sup><br><br>Catalan number<br><br><b>catastrophe</b> <sup>+</sup><br><br>catastrophe reinsurance<br><br>catastrophe theory <sup>+</sup> | pelenyapan sembilan<br><br>sambilan<br>pekerjaan sambilan<br>buruh sambilan<br>cuti biasa<br>pekerja sambilan<br><br>bilangan Catalan<br><br>malapetaka/katastrofe<br><br>asuransi kembali mala-<br>petaka/katastrofe<br><br>teori malapetaka/katastrofe                                                                                                                                 | cuti biasa<br>pekerja sambilan<br><br>nombor Catalan<br><br>malapetaka<br>(MBIM: bencana; malapetaka)<br><br>insurans semula malapetaka<br><br>teori malapetaka                                                                                                                                                                                                                   |
| categorical distribution<br><br>categoricity<br>categorized data<br><b>category</b><br><br><b>catenary</b><br><br>catenary curve <sup>+</sup><br>katenoid<br><br><b>cater</b> <sup>+</sup><br><br>caterer <sup>++</sup><br><br>caterer problem<br><br>catering <sup>+</sup><br><br>Cauchy convergence         | distribusi/sebaran/serakan/<br>agihan kategoris<br><br>kekategorian<br>data terkategori<br>kategori<br><br>katener/{lengkung rantai}<br><br>kurva/lengkung(an) ketener<br>katenoid<br><br>menyaji?<br><br>pejasa boga; penyaji<br>(makanan)<br><br>masalah/problem katerer/<br>pengkatering/penyaji<br>(makanan)<br><br>katering/penyajian<br>(makanan)<br><br>kekonvergenan/konvergensi | taburan berkategori<br><br>kekategorian<br>data terkategori<br>kategori<br><br>katener*<br>(MBIM21: katenari)<br><br>lengkung katener*<br>katenoid<br><br>menyaji<br><br>katerer <sup>+</sup> {penyaji makanan}<br><br>masalah katerer <sup>+</sup> {penyaji<br>makanan}<br><br>penyajian makanan<br><br>ketumpuan* Cauchy;<br>penumpuan Cauchy<br><br>persamaan terbitan* Cauchy |

|                              |                                          |                                                           |
|------------------------------|------------------------------------------|-----------------------------------------------------------|
|                              | Cauchy                                   | taburan Cauchy                                            |
| Cauchy differential equation | persamaan diferensial Cauchy             |                                                           |
| Cauchy distribution          | distribusi/sebaran/serakan/agihan Cauchy |                                                           |
| Cauchy filter base           | dasar tapis Cauchy                       | asas turas Cauchy                                         |
| Cauchy inequality            | ketaksamaan Cauchy                       | ket(id)aksamaan Cauchy                                    |
| Cauchy integral              | integral Cauchy                          | kamiran Cauchy ( MABBIM)<br>(MBIM: kamilan...)            |
| Cauchy integral equation     | persamaan integral Cauchy                | persamaan kamiran Cauchy                                  |
| Cauchy integral formula      | rumus integral Cauchy                    | rumus kamiran Cauchy:<br>MABBIM<br>(MBIM: ...kamilan...)  |
| Cauchy integral method       | metode integral Cauchy                   | kaedah kamiran Cauchy                                     |
| Cauchy integral theorem      | teorema integral Cauchy                  | teorem kamiran Cauchy:<br>MABBIM<br>(MBIM: ...kamilan...) |
| Cauchy kernel                | galih/kernel/teras Cauchy                | inti Cauchy                                               |
| Cauchy principal value       | nilai utama/prinsipil Cauchy             | nilai prinsipal Cauchy                                    |
| Cauchy product               | {hasil kali}/produk Cauchy               | hasil darab Cauchy                                        |
| Cauchy-Riemann equation      | persamaan Cauchy-Riemann                 | persamaan Cauchy-Riemann                                  |
| Cauchy-Schwart inequality    | ketasamaan Cauchy-Schwartz               | ket(id)aksamaan Cauchy-Schwartz                           |
| Cauchy sequence              | barisan/urutan Cauchy                    | jujukan Cauchy                                            |
| Cauchy's filter              | tapis Cauchy                             | turas Cauchy                                              |
| Cauchy's inequality          | ketaksamaan Cauchy                       | ket(id)aksamaan Cauchy                                    |
| Cauchy's net                 | jaring Cauchy                            | jaring Cauchy<br>teorem Cauchy                            |

|                                  |                                                                       |                                                                             |
|----------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Cauchy's theorem                 | teorema Cauchy                                                        | bersebab; penyebab                                                          |
| causal <sup>+</sup>              | penyebab/kausal                                                       | sekutuan <sup>+</sup> bersebab<br>(MBIM: kaitan.....)                       |
| causal association <sup>+</sup>  | asosiasi penyebab/kausal                                              | model rantai bersebab                                                       |
| causal chain model               | model rantai penyebab/<br>kausal                                      | konjungsi <sup>+</sup> / {kata hubung}<br>penyebab*<br>(MBIM: .... sebab)   |
| causal conjunction <sup>+</sup>  | konjungsi penyebab/kausal                                             | kaitan bersebab                                                             |
| causal connection <sup>+</sup>   | koneksi/pautan/sambungan<br>penyebab/kausal                           | taburan bersebab                                                            |
| causal distribution              | distribusi/sebaran/serakan/<br>agihan penyebab/kausal                 | penjelasan penyebab <sup>+</sup><br>(MBIM: ... sebab akibat)                |
| causal explanation <sup>+</sup>  | penjelasan penyebab/kausal                                            |                                                                             |
| causal hypothesis <sup>+</sup>   | hipotesis penyebab/kausal                                             | hipotesis penyebab <sup>+</sup><br>(MBIM: ....sebab akibat)                 |
| causal inconnection <sup>+</sup> | bukan koneksi/pautan/<br>sambungan penyebab/<br>kausal                | bukan kaitan bersebab                                                       |
| causal relationship <sup>+</sup> | perhubungan/perelasian?/<br>perkaitan/persangkutan<br>penyebab/kausal | perhubungan <sup>+</sup> bersebab<br>(MBIM: hubungan/pertalian<br>bersebab) |
| causal system <sup>+</sup>       | sistem penyebab/kausal                                                | sistem penyebab                                                             |
| causal variable <sup>+</sup>     | pe(r)ubah/variabel penye-<br>bab/kausal                               | pembolehubah <sup>+</sup> penye-<br>bab<br>(MBIM: variabel bersebab)        |
| causality                        | kepenyebaban/kausalitas                                               | keberseaban <sup>+</sup><br>(MBIM: sebab-menyebab)                          |
| causality principle <sup>+</sup> | kaidah/prinsip kepenye-<br>baban/kausalitas                           | prinsip keberseaban                                                         |
|                                  |                                                                       | penyebaban <sup>+</sup><br>(MBIM: sebab akibat)                             |

|                                        |                                                   |                                                      |
|----------------------------------------|---------------------------------------------------|------------------------------------------------------|
| causation <sup>+</sup>                 | penyebaban                                        |                                                      |
| causative <sup>+</sup>                 | penyebab/kausatif                                 | penyebab; berdaya sebab                              |
| causative factor <sup>+</sup>          | faktor penyebab/kausatif                          | faktor penyebab/{berdaya sebab}                      |
| <b>cause<sup>+</sup></b>               | sebab                                             | sebab                                                |
| cause and effect <sup>+</sup>          | sebab dan efek/akibat/<br>pengaruh                | sebab dan kesan<br>(MBIM: kesan musabab)             |
| cause variable                         | pe(r)ubah/variabel<br>penyebab                    | {pemboleh ubah sebab}*<br>(MBIM: pembolehubah sebab) |
| cause-specific death rate <sup>+</sup> | laju/tingkat/kadar kematian<br>dgn sebab spesifik | kadar kematian dgn sebab-<br>spesifik                |
| Cavalieri's principle                  | kaidah/prinsip Cavalieri                          | prinsip Cavalieri                                    |
| Cayley diagram                         | diagram Cayley                                    | gambar rajah* Cayley                                 |
| Cayley's parameterisation              | pemparameteran Cayley                             | pem(p)arameteran Cayley                              |
| Cayley number                          | bilangan Cayley                                   | nombor Cayley                                        |
| Cayley's theorem                       | teorema Cayley                                    | teorem Cayley                                        |
| Cayley-Hamilton theorem                | teorema Cayley-Hamilton                           | teorem Cayley-Hamilton                               |
| Cech bicomactification                 | pendwikompakan Cech                               | pendwipadatan Cech                                   |
| ceiling <sup>++</sup>                  | langit-langit/lelangit; pagu                      | siling; bumbung                                      |
| ceiling price <sup>+</sup>             | harga pagu                                        | harga bumbung                                        |

%%%%%%%%%



## Pengelasan Sains Matematik PERSAMA 2000

PERINCIANNYA ADA DALAM WARKAH BERITA PERSAMA 1999

Aljabar [Aj1-77.xxxx]

Am dan pelbagai [Am1-11.xxxx]

Analisis [As1-77.xxxx]

Ekonomi Matematik [EM1-37.xxxx]

Geometri, topologi dan manifold [G1-46.xxxx]

Landasan, sejarah dan falsafah sains matematik [L1-9.xxxx]

Matematik biologi dan perubatan (biologi matematik, biomatematik, biostatistik, dsbnya) [MB1-33.xxxx]

Matematik Fizik/Fizik matematik [MF1-36.xxxx]

Pendidikan Sains Matematik [PdSM1-11. 97xx]

Pengoptimuman dan Kawalan [PoK1-32.xxxx]

Penyelidikan Operasi dan Sains Pengurusan [Pop1-12.xxxx]

Sains Komputer [SK1-26.xxxx]

Sains Matematik Aktuari dan Keewangan, Kejuruteraan Keewangan [SMAK1-16.62P05(s)]

Sains Matematik Industri [SMI1-40.xxxx]

Sains Matematik Kejuruteraan [SMKj1-47.xxxx]

Sains Matematik Mutu dan Daya Pengeluaran [SMDP1-13.xxxx]

Sains Matematik Pengurusan [SMPu1-40.xxxx]

Sistem Dinamik dan yang berhubungan dgnnya [SD1-12.xxxx]

Statistik dan kebarangkalian [St1-30.xxxx]

Sains Matematik Yang Lain [SML1-14.xxxx]

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### **PENGELASAN SAINS MATEMATIK *MASTIC* 2003**

MULAI 2003 *MASTIC* , KEMENTERIAN SAINS, TEKNOLOGI DAN ALAM SEKITAR (KINI KEMENTERIAN SAINS, TEKNOLOGI DAN INOVASI), MEMPERKENAL PENGELASAN SAINS MATEMATIK YANG BARU HASIL DARIPADA RUNDINGAN DENGAN BEBERAPA ORANG AHLI SAINS MATEMATIK UNDANGANNYA TERMASUKLAH PRESIDEN PERSAMA. PIHAK PERSAMA CUBA MENGETENGAHKAN PENGELASAN SAINS MATEMATIK PERSAMA 2000 ITU, TETAPI DITOLAK OLEH PIHAK *MASTIC* ATAS ALASAN PERUBAHAN BESAR SEPERTI ITU TIDAK SESUAI DENGAN RANGKA PENGELASAN ILMU YANG DIAMALKAN OLEH *MASTIC* SELAMA INI YANG BERASASKAN PADA PERAKUAN PERUNDINGNYA DARI AUSTRALIA. JELASLAH BUAT BEBERAPA KETIKA INI *MASTIC* MASIH MAHU MENGEKALKAN KERANGKA PENGELASAN SAINS MATEMATIK DARI PERUNDINGNYA ITU. SEBELUM ITU, PERMOHONAN PRESIDEN PERSAMA (SECARA BERTULIS) AGAR PENGELASAN INI DIBUAT DALAM DWIBAHASA MELAYU-INGGERIS JUGA, MALANGNYA TIDAK DILAYAN (AGAKNYA SESUAI DGN DASAR BARU BAHASA BARU MALAYSIA SEJAK 2003 ITU). DENGAN KEKANGAN INI SARJANA SAINS MATEMATIK TEMPATAN YANG DIRUNDINGI ITU TERPAKSALAH BERKOMPROMI LALU MENGHASILKAN PENGELASAN *MASTIC* 2003 INI YANG LAYAK DINAMAI PENGELASAN SAINS MATEMATIK *MASTIC* 2003 SAHAJA. PARA PEMOHON PROJEK *IRPA* MULAI 2003 INI PERLULAH MENGGUNAKAN PENGELASAN INI.

### **F1010100 MATHEMATICS**

F1010101 APPROXIMATION THEORY

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F1010104 COMBINATORICS

F1010105 CONTROL THEORY

F1010106 DIFFERENCE, DIFFERENTIAL, INTEGRAL, INTEGRO-DIFFERENTIAL AND FUNCTIONAL EQUATIONS

F1010107 DYNAMICAL SYSTEMS

F1010108 FIELD THEORY

F1010109 FOURIER AND HARMONIC ANALYSIS

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F1010123 REAL AND COMPLEX FUNCTIONS

F1010124 RINGS AND ALGEBRAS

F1010125 SEVERAL COMPLEX VARIABLES

F1010199 OTHER MATHEMATICS

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F1010202 EXPERIMENTAL DESIGN AND ANALYSIS

F1010203 EXPLORATORY DATA ANALYSIS

F1010204 HISTORY AND PHILOSOPHY

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F1010207 OBSERVATIONAL STUDIES  
F1010208 PROBABILITY AND DISTRIBUTION THEORY  
F1010209 QUALITY AND PRODUCTIVITY MEASUREMENT  
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F1010212 STATISTICAL INFERENCES  
F1010213 STATISTICAL MODELLING  
F1010214 STOCHASTIC ANALYSIS AND MODELLING  
F1010215 SURVIVAL AND RELIABILITY ANALYSIS  
F1010216 TIME SERIES AND SPATIAL ANALYSIS  
F1010299 OTHER STATISTICS

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F1010303 CIRCUIT AND NETWORKS  
F1010304 COMPUTATIONAL METHODOLOGY AND COMPLEXITIES  
F1010305 COMPUTER SYSTEMS ORGANISATION  
F1010306 COMPUTER-AIDED GEOMETRIC DESIGN (CAGD)  
F1010307 DETERMINISTIC AND STOCHASTIC DIFFERENCE, DIFFERENTIAL,  
INTEGRAL, INTEGRO-DIFFERENTIAL  
AND FUNCTIONAL EQUATIONS  
F1010308 DISCRETE MATHEMATICS  
F1010309 DYNAMICAL SYSTEMS  
F1010310 EXPERIMENTAL MATHEMATICS  
F1010311 INDUSTRIAL COMPUTING  
F1010312 INDUSTRIAL STATISTICS  
F1010313 INDUSTRIAL OPTIMISATION AND CONTROL  
F1010314 INFORMATION AND COMMUNICATION  
F1010315 APPLIED LOGIC AND AUTOMATA  
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F1010505 MATHEMATICAL ETHNOSCIENCES AND ISLAMIC EDUCATION



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