

Simposium Kebangsaan Sains Matematik ke-14
Abstrak yang telah diterima
(Matematik Gunaan)

Nama Pengarang (Nama pembentang digaris bagi kertas lebih drp. satu pengarang)	Alamat	Tajuk Kertas Kerja
Abu Bakar Musa	Department of Engineering Sciences & Mathematics College of Engineering, Universiti Tenaga Nasional, KM 7, Jalan Kajang-Puchong, 43009 Kajang, Selangor DE bakar@uniten.edu.my	A Numerical Solution of Wave Motion in Viscoelastic Rods (Standard Linear Solid Model)
Ali Hassan Mohamed Murid ¹ Nurul Akmal Mohamed ²	Department of Mathematics Faculty of Science Universiti Teknologi Malaysia 81310 Skudai Johor ¹ ahmm@mel.fs.utm.my ² akmalmohdy@yahoo.com	An Integral Equation Method for Conformal Mapping of Doubly Connected Regions via the Kerzman-Stein Kernel
Anati Ali ¹ Norsarahaida Amin ²	Department of Mathematics Faculty of Science Universiti Teknologi Malaysia 81310 Skudai Johor ¹ anati@mel.fs.utm.my ² nsarah@mel.fs.utm.my	A 3d Keller-Box Scheme for the Numerical Solution of an Unsteady Boundary Layer Problem
Anuar Ishak ¹	^{1,2} Pusat Pengajian Sains Matematik	Heat Transfer in the Stagnation Point

Roslinda Nazar ² Ioan Pop ³	Fakulti Sains & Teknologi Universiti Kebangsaan Malaysia 43600 UKM Bangi Selangor DE ¹ anuarishak@yahoo.com ² rmn72my@yahoo.com ³ Faculty of Mathematics, University of Cluj, R-3400 Cluj, CP 253, Romania ³ pop.ioan@yahoo.co.uk	Flow of a Micropolar Fluid Towards a Stretching Sheet
Belal Batiha, Suzelawati Zenian, Ishak Hashim ¹	School of Mathematical Sciences, Faculty of Science & Technology Universiti Kebangsaan Malaysia, 43600 UKM Bangi ¹ ishak_h@ukm.my	Numerical Comparisons of AGE Method and Adomian Decomposition Method for the Solution of Fourth-Order Parabolic Equation
<u>Chew Peng Chun</u> , Abd. Rahni Mt. Piah ¹ , Ahmad Abd. Majid	Pusat Pengajian Sains Matematik, Universiti Sains Malaysia, 11800 USM Pulau Pinang ¹ arahni@cs.usm.my	Pembinaan Permukaan Tertutup Licin Dengan Menakrif Splin Bikubik Pada Mesy Sisiempat Ringkas
Daud Mohamad ¹ , Nor Hashimah Sulaiman ²	Jabatan Matematik, Fakulti Teknologi Maklumat & Sains Kuantitatif, UiTM Shah Alam ¹ daud@tmsk.uitm.edu.my , ² nhashima@tmsk.uitm.edu.my	Model Mantik Kabur untuk Pemilihan Pelajar Pasca Siswazah
Kasim Muhamad ¹ ,	¹ Jabatan Latihan Khidmat Negara	Masalah Operasi Pengangkutan Minyak

<p>Razamin Ramli, Shamsudin Ibrahim</p>	<p>Kementerian Pertahanan Malaysia 153, Menara TH Selborn, Jalan Tun Razak, Kuala Lumpur</p> <p>kasimmuhamad@khidmatnegara.gov.my</p> <p>^{2,3}Fakulti Sains Kuantitatif, Universiti Utara Malaysia, Sintok, Kedah Darul Aman</p> <p>²razamin@uum.edu.my ³sham849@uum.edu.my</p>	<p>Sawit dari Kilang Memproses ke Tempat Penyimpanan</p>
<p>Ilyani Abdullah¹ Zuhaila Ismail² Norsarahaida Amin³</p>	<p>Department of Mathematics, Faculty of Science, Universiti Teknologi Malaysia 81310 UTM Johor</p> <p>¹ilyani@kustem.edu.my</p>	<p>A Micropolar Fluid Model of Blood Flow Through a Constricted Artery</p>
<p>Jumat Sulaiman¹, Mohd. Khatim Hasan², Mohamed Othman³</p>	<p>¹Sekolah Sains & Teknologi, Universiti Malaysia Sabah, Beg Berkunci 2073, 88999 Kota Kinabalu, Sabah. jumat@ums.edu.my</p> <p>²Fakulti Teknologi & Sains Maklumat, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor DE. khatim@ukm.edu.my</p>	<p>Kaedah Lelaran Kumpulan Tak Tersirat Sapuan Separuh dengan Penertiban Merah Hitam bagi Persamaan Hiperbolik Peringkat Pertama</p>
<p>Kek Sie Long</p>	<p>Panel Matematik, Pusat Pengajian Sains Kolej Universiti Teknologi Tun Hussein</p>	<p>Masalah Pengoptimuman Berdinamik Mengguna MATHCAD</p>

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<p><u>Liong Choong Yeun</u>¹ Wan Rosmanira Ismail² Mourad Zirour³</p>	<p>Pusat Pengajian Sains Matematik Fakulti Sains dan Teknologi Universiti Kebangsaan Malaysia 43600 UKM Bangi</p> <p>lg@pkrisc.cc.ukm.my wrismail@pkrisc.ukm.my zirour@yahoo.fr</p>	<p>Quay Management: A Genetic Algorithm for Solving a Specific Quadratic Assignment Problem</p>

Maheran Mohd Jaffar	Pusat Pengajian Matematik, Fakulti Teknologi Maklumat dan Sains Kuantitatif Universiti Teknologi MARA, 40450 Shah Alam maheran@tmsk.uitm.edu.my	Model <i>Musyarakah</i> bagi Pengurusan Pelaburan Islam
Md. Abu Omar bin Awang	Institut Sains Matematik Universiti Malaya 50603 Kuala Lumpur	Menghadam Pi dengan Teorem Phythagoras
<u>Md Sazzad Hossein Chowdhury</u> ¹ , Ishak Hashim ²	^{1,2} School of Mathematical Sciences, Faculty of Science & Technology Universiti Kebangsaan Malaysia, 43600 UKM Bangi ² ishak_h@ukm.my	Numerical Solution of Fin Problem Using Decomposition Method
Mohamed Saifullah Hussin ¹ , Engku Muhammad Nazri Engku Abu Bakar ²	Fakulti Sains Kuantitatif, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah ¹ lahjenan@yahoo.com ² enazri@uum.edu.my	Pemodelan Simulasi Interaktif Sebagai Alat Sokongan Pemutusan: Kajian Kes di Kilang Pemasangan Papan litar Bercetak
<u>Mohammad Khatim Hasan</u> ¹ , Mohamed Othman ² , Zulkifly Abbas ³ , Jumat Sulaiman ⁴ , Jalil Md. Desa ²	¹ Department of Industrial Computing, Faculty of Information Science and Technology, 43600 UKM Bangi Selangor DE ¹ khatim@ukm.edu.my or khatim71@hotmail.com ² Department of Communication	A New Parallel Solver for Wave Propagation in Free Space

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<p><u>Mohammad Khatim Hasan</u>¹, Mohamed Othman², Zulkifly Abbas³, Jumat Sulaiman⁴, Jalil Md. Desa²</p>	<p>(sama seperti di atas)</p>	<p>A New Fast and Accurate Method for Maxwell Equations</p>
<p>Mohd Omar¹ <u>Ivan Yeo</u>²</p>	<p>Institute of Mathematical Sciences Faculty of Science University of Malaya 50603 Kuala Lumpur</p> <p>¹mohd@um.edu.my ²reinloch@um.edu.my</p>	<p>An Optimal Production and Recycling Policy for a Manufacturing System Under a Linearly Increasing Time- varying Demand Process</p>
<p>Mohd Rafie Johan</p>	<p>Jabatan Kejuruteraan Mekanik, Universiti Malaya, 50603 Kuala Lumpur</p> <p>mrafiej@um.edu.my</p>	<p>Model Matematik Gelombang Tsunami</p>

<p>Mohd Salleh Sahimi Bin Mohamed¹, Ahmad Kamal Bin Zulkifle², <u>Amna Abdurrahman</u>³ Ishak Hashim⁴</p>	<p>^{1,2,3}Department of Engineering Sciences and Mathematics, College of Engineering, Universiti Tenaga Nasional, KM 7, Jalan Kajang-Puchong, 43009 Kajang, Selangor DE ³Amna@uniten.edu.my</p> <p>⁴School of Mathematical Sciences, Universiti Kebangsaan Malaysia</p>	<p>Curing Simulation of Thermoset Composites using the AGE Algorithm</p>
<p>Mohd Salleh Sahimi Bin Mohamed¹, <u>Noreliza Abu Mansor</u>², Ahmad Kamal Zulkifle³ Ishak Hashim⁴</p>	<p>^{1,2,3}Department of Engineering Sciences and Mathematics, College of Engineering, Universiti Tenaga Nasional, KM 7, Jalan Kajang-Puchong, 43009 Kajang, Selangor DE ¹sallehs@uniten.edu.my ²Noreliza@uniten.edu.my</p> <p>⁴School of Mathematical Sciences, Universiti Kebangsaan Malaysia ⁴ishak_h@pkriscc.ukm.my</p>	<p>A Fourth Order Iterative Alternating Decomposition Explicit Method (IADE) to Solve the Heat Equation</p>
<p>Mohd Salleh Sahimi Bin Mohamed¹, <u>Norhalena Mohd Noor</u>², Ahmad Kamal Zulkifle³ Ishak Hashim⁴</p>	<p>^{1,2,3}Department of Engineering Sciences and Mathematics, College of Engineering, Universiti Tenaga Nasional, KM 7, Jalan Kajang-Puchong, 43009 Kajang, Selangor DE ¹sallehs@uniten.edu.my</p>	<p>A Fourth Order Alternating Group Explicit (AGE) Method to Solve the Heat Equation</p>

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<p><u>Muhafzan</u>¹, Malik Hj. Abu Hassan², Fudziah Ismail³, Leong Wah June⁴</p>	<p>Department of Mathematics, Universiti Putra Malaysia, UPM Serdang, 43400</p> <p>¹muhafzan@gmail.com ²malik@fsas.upm.edu.my ³fudziah@fsas.upm.edu.my ⁴leongwj@putra.upm.edu.my</p>	<p>Solving the Linear Quadratic Control Problem Using SDP Method</p>

<p>Munira Ismail¹ <u>Ali Hassan Mohamed Murid</u>² Bahrom Sanugi³</p>	<p>^{1,2,3}Department of Mathematics, Faculty of Science, Universiti Teknologi Malaysia 81310 UTM Skudai Johor</p> <p>¹mi@mel.fs.utm.my ²ahmm@mel.fs.utm.my ³bs@mel.fs.utm.my</p>	<p>An Iterative Technique for the Numerical Solution of the Interior Riemann Problem on Region With Corners</p>
<p>Mustafa Mamat¹ Yosza Dasril² Ismail Mohd³</p>	<p>Jabatan Matematik Fakulti Sains dan Teknologi Kolej Universiti Sains dan Teknologi Malaysia (KUSTEM) 21030 Kuala Terengganu.</p> <p>¹mus@kustem.edu.my ²yosza@kustem.edu.my ³ismailmd@kustem.edu.my</p>	<p>Analisis Awal Keputusan Berangka Kaedah Bfgs-Sd bagi Masalah Pengoptimuman Tak Berkekangan</p>
<p><u>N.N. Ganikhodjaev</u>¹ Pah Chin Hee²</p>	<p>Centre for Computational and Theoretical Sciences, Faculty of Science, International Islamic University Malaysia, 53100 Kuala Lumpur</p> <p>¹nasirgani@hotmail.com ²pahchinhee@gmail.com</p>	<p>The phase diagram for q-component model on Z^2</p>
<p>Nik Rusdi bin Yaacob</p>	<p>Pejabat Dekan Fakulti Kejuruteraan Universiti Kebangsaan Malaysia 43600 UKM BANGI rusdi@vlsi.eng.ukm.my</p>	<p>Model Resapan Bagi Gerakan Zarah Dalam Medan Elektromagnet</p>

<p>Nor Alisa Damanhuri¹, A. A. Majid²</p>	<p>¹Faculty of Chemical and Natural Resources Engineering, University College of Engineering and Technology Malaysia, KUKTEM, Bandar MEC, 25200 Kuantan, Pahang D.M.</p> <p>²Faculty of Mathematical Sciences, University Sains Malaysia, 11800 Minden, Penang</p> <p>¹noralisa@kuktem.edu.my</p>	<p>Recursive Subdivision Method for Smoothing Irregular Polyhedron</p>
<p>Nor Azizah Ali <u>Habibollah Haron</u> Nor Haizan Mohamed Radzi, Azlan Mohd. Zain, Dayang Norliati Abang Shamat</p>	<p>Fakulti Sains Komputer & Sistem Maklumat, Universiti Teknologi Malaysia, Skudai, Johor nazh@fsksm.utm.my haizan@fsksm.utm.my azlan@fsksm.utm.my</p>	<p>Kajian terhadap Perbandingan Prestasi Teknik Pensaizan Lot di dalam Persekitaran Rolling Horizon</p>
<p>Nordin Haji Mohamed</p>	<p>Institute of Mathematical Sciences Faculty of Science Universiti Malaya 50603 Kuala Lumpur nordinhm@um.edu.my</p>	<p>Data Envelopment Analysis in Practice</p>
<p>Norhashidah Hj. Mohd. Ali¹ <u>Teong Khan Vun</u></p>	<p>Pusat Pengajian Sains Matematik Universiti Sains Malaysia 11800 Penang ¹shidah@cs.usm.my</p>	<p>Fourth Order Difference Schemes on Rotated Grid for Fourth Order Elliptic Equation</p>
<p>Norhasimah Mahiddin¹ Mohd Salmi Mohd Noorani²</p>	<p>Pusat Pengajian Sains Matematik, Fakulti Sains dan Teknologi,</p>	<p>Penyelesaian Gelombang Kembara bagi Persamaan Resapan</p>

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<u>Norzieha Mustapha</u> ¹ Norsarahaida Amin	Department of Mathematics, Faculty of Science Universiti Teknologi Malaysia ¹ nzieha81@yahoo.com	A Two-Dimensional Newtonian Model of Blood Flow Through a Multi-Irregular Stenosed Artery
<u>Nur Arina Bazilah bt Aziz</u> ¹ , Noor Hasnah Moin ²	Institute of Mathematical Sciences, Faculty of Science, Universiti Malaya, 50603 Kuala Lumpur ¹ arina_aziz@perdana.um.edu.my ² noor_hasnah@um.edu.my	The Applications of Metaheuristics in Inventory Routing Problems
<u>Nur Ilyana Anwar Apani</u> ¹ Norsarahaida Amin	Department of Mathematics, Faculty of Science Universiti Teknologi Malaysia 81300 Skudai Johor ¹ ilyana@mel.fs.utm.my ² nsarah@mel.fs.utm.my	The Boundary Layer Flow of a Viscoelastic Fluid Near a Stagnation Point
<u>Omar Abdul Aziz Mohamed Ali Ishak Hashim</u> ¹	School of Mathematical Sciences, Faculty of Science & Technology Universiti Kebangsaan Malaysia, 43600 UKM Bangi ¹ ishak_h@ukm.my	Numerical Solution of Fractional System of Nonlinear ODEs Using Decomposition Method

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<p>Phang Chang¹ Phang Piau²</p>	<p>Pusat Pengajian Sains, Kolej Universiti Teknologi Tun Hussein Onn, KUITTHO Beg Berkunci 101, 86400, Parit Raja, Batu Pahat, Johor.</p> <p>¹pchang@kuittho.edu.my ²phang@kuittho.edu.my</p>	<p>Numerical Solution for Laplace's Equation With Neumann Boundary Condition by Regional Monte Carlo Method Using Absorbing Markov Chains</p>
<p>Rokiah @ Rozita Ahmad¹ Siti Mahani Marjugi²</p>	<p>Pusat Pangajian Sains Matematik, Fakulti Sains & Teknologi, Universiti Kebangsaan Malaysia, 43600 UKM BANGI, Selangor DE ¹rozy@pkisc.cc.ukm.my</p>	<p>Kaedah Min Runge-Kutta Peringkat-4 Bagi Penyelesaian Persamaan Pembezaan Biasa</p>
<p>Roselina Sallehuddin¹, Nor Haizan Mohd. Radzi² Muhammad Shukor Talib³</p>	<p>Fakulti Sains Komputer dan Sistem Maklumat, UTM, Skudai, 81310 Johor</p> <p>¹lina@fsksm.utm.my, ²haizan@fsksm.utm.my. ³shukor@fsksm.utm.my</p>	<p>Aplikasi Rangkaian dalam Pensaizan Lot Satu Aras</p>

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<u>Sashirekha Appalasamy</u> ¹ , Sutinah Salim ²	Department of Mathematics, Faculty of Science, Universiti Teknologi Malaysia, 81310 UTM Skudai, Johor ¹ rekhasashi@hotmail.com ² sutinah@mel.fs.utm.my	JSSP Solver with a Modified and Extended Lagrangian Relaxation Neural Network (LRNN)
Shaharir Zain	Institut Penyelidikan Matematik Universiti Putra Malaysia 43400 UPM Serdang Selangor DE	Penganggaran Nilai Wustdo dalam Pengaturcaraan Linear Bermatalamat Tunggal

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Shaharuddin Salleh	Dept of Mathematics, Faculty of Science, Universiti Teknologi Malaysia, 81310 Johor Bahru ss@mel.fs.utm.my	Interstreet Crossing Issues In Single-Row Routing
<u>Sharidan Shafie</u> ¹ Norsarahaida Amin ²	Dept of Mathematics, Faculty of Science, Universiti Teknologi Malaysia, 81310 Johor Bahru ¹ sharidan@mel.fs.utm.my ² nsarah@mel.fs.utm.my	Maximum Density Effects on g -Jitter Induced Free Convection Between Vertical Plates Heated Asymmetrically
S. Amir ¹ , N.S.Mohamed ² S.A. Hashim Ali ³	^{1,2} Center for Foundation Studies in Science, University of Malaya 50603 Kuala Lumpur ¹ shahizat@um.edu.my ² nsabirin@um.edu.my ³ Institute of Mathematical Sciences University of Malaya 50603 Kuala Lumpur saishah@um.edu.my	Simulation of Complex Geometric Non-Linear Pattern In Physical Science
<u>Syamsuddin Toaha</u> ¹ , Malik Hj. Abu Hassan ² , Fudziah Ismail ³ , Leong Wah June ⁴	Department of Mathematics Universiti Putra Malaysia, 43400 UPM Serdang, Selangor DE ¹ syamsuddint@yahoo.com , ² malik@putra.upm.edu.my ,	Stability Analysis and Maximum Profit of One Prey – Two Predators Population Model Under Constant Effort of Harvesting

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<u>Tey Siew Kian</u> ¹ Abdul Halim Abdul Rashid ² Khalid Mohamed Nor ³	^{1,2} Institute of Mathematical Sciences, Faculty of Science, University of Malaya, 50603 Kuala Lumpur, ³ Dept. of Electrical Power Engineering, Faculty of Electrical Engineering, UTM ¹ tsiewkian@um.edu.my ² ahar@um.edu.my ³ khalid@fke.utm.my	Power System State Estimation
Umar Baba ¹ & <u>Mohd. Nain Hj Awang</u> ²	¹ Pusat Pengajian Sains Matematik, Universiti Sains Malaysia, 11800 Minden, Pulau Pinang umar@cs.usm.my ² Pusat Pengajian Jarak Jauh, Universiti Sains Malaysia, 11800 Minden, Pulau Pinang. mnain@usm.my	Penjanaan Bayang-Bayang Objek Yang Dijana Komputer
S. H. Yahaya ¹ , M. Z. Hussain ² , <u>J. M. Ali</u> ³	^{1,3} School of Mathematical Sciences, Universiti Sains Malaysia, Penang ² Department of Mathematics, University of the Punjab, Lahore, Pakistan	Visualization of Monotonic and Convex Data by Bézier-like Quartic Interpolation

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Wan Ainun Mior Othman	Institute of Mathematical Sciences Faculty of Science University of Malaya 50603 Kuala Lumpur wanainun@um.edu.my	Change of Basis Algorithms for Curves and Surfaces
<u>Yap Lee Ken</u> ¹ Fudziah Ismail ² Mohamed Suleiman ³	¹ Institute for Mathematical Research, Universiti Putra Malaysia 43400 UPM Serdang Selangor el_win81@hotmail.com ^{2,3} Department of Mathematics, Faculty of Science, Universiti Putra Malaysia 43400 UPM Serdang Selangor. ² fudziah@fsas.upm.edu.my ³ mohameds@science.upm.edu.my	Explicit 3-Point Block Method for Solving Second Order IVP Directly
<u>Zamali Hj. Tarmudi</u> ¹ , Abu Osman Md Tap ²	¹ UiTM Kampus Sabah, Beg Berkunci 71, 88997 Kota Kinabalu, Sabah. ² Fakulti Sains dan Teknologi, KUSTEM, Mengabang Telipot, 21030 Kuala Terengganu ¹ zamalihj@sabah.uitm.edu.my ² abuosman@kustem.edu.my	Penilaian Kualiti Pengajaran Menggunakan Model Kabur

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