

**ZAILAN BIN SIRI, Ph.D.****Associate Professor**

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Google: <https://scholar.google.com/citations?user=kPR04JUAAAAJ&hl=en>

PUBLICATIONS STATISTICS

Database	No. Articles	H-index	Citations
WoS	53	8	175
SCOPUS	63	9	340
Google Scholar	77	12	562

ACADEMIC QUALIFICATION

- 2012 Ph.D., Mathematics, Universiti Kebangsaan Malaysia (UKM)
2004 M.Sc., Numerical Analysis, Universiti Putra Malaysia (UPM)
2001 B.Sc., Computational and Industrial Mathematics, Universiti Malaya (UM)

SPECIALIZATION

AREA OF EXPERTISE

Numerical Analysis; Thermodynamics and Heat Transfer; Computational Mathematics; Mathematical Programming & Modelling; Financial Mathematics

RESEARCH INTEREST

Implementation of Multigrid Algorithm in Parallel; Natural convection in enclosure; Boundary layer problems; Numerical Methods & Analysis

BIOGRAPHY

ZAILAN BIN SIRI was born in Melaka, Malaysia, in 1977. He received the B.Sc. (Honours) degree in Computational and Industrial Mathematics from the Universiti Malaya, Malaysia, in 2001, and the M.Sc. in Applied Mathematics from the Universiti Putra Malaysia in 2004 under supervision Professor Dr. Fudziah Ismail. In 2012, he received Ph.D. degree in Mathematics from the Universiti Kebangsaan Malaysia under supervision Professor Dr. Ishak Hashim.

In 2002, he joined the Institute of Mathematical Sciences, Universiti Malaya, Kuala Lumpur, Malaysia as a Tutor, and in 2004 became a Lecturer. Since July 2012, he was a Senior Lecturer and appointed as an Associate Professor in 2018.

He has taught a various of courses in Applied Mathematics at undergraduate programme level and supervised more than 10 postgraduate MSc and PhD candidates. Currently, 7 Ph.D. and 5 M.Sc. candidates graduated under his supervision.

His current research interests include Computational Fluid Dynamics, Numerical Methods & Analysis and Boundary Layer Problems. He received more than RM 600,000 research funding from Ministry of Higher Education, Malaysia and Universiti Malaya since 2008. He published more than 60 articles in WoS & Scopus indexed journals with about 35% of the publications ranked in first and second quartile journals (Q1 and Q2).

He is a Life Member of the Malaysian Mathematical Sciences Society and Golden Key Association. He also Committee Member of EDUCATUM Journal of Science, Mathematics and Technology, Universiti Pendidikan Sultan Idris, Perak.

ADMINISTRATIVE DUTIES

1. Head, Institute of Mathematical Sciences, Universiti Malaya, 01/10/2020 to present.
2. Jawatankuasa Sebut Harga Universiti Malaya, 17/04/2018 to present.
3. Jawatankuasa Kokurikulum Ijazah Dasar, Faculty of Science, Universiti Malaya, 01/09/2016 to present.
4. Jawatankuasa Ijazah Tinggi, Faculty of Science, Universiti Malaya, 01/09/2016 to present.
5. Deputy Head (Undergraduate), Institute of Mathematical Sciences, Universiti Malaya, 01/09/2019 to 31/09/2020.
6. Programme Coordinator of BSc in Applied Mathemarics, Institute of Mathematical Sciences, Universiti Malaya, 03/09/013 to 31/08/2019.
7. Industrial Tranning Coordinator, Institute of Mathematical Sciences, Universiti Malaya, 27/08/2012 to 31/08/2019.
8. Jawatankuasa ISO, Faculty of Science, Universiti Malaya, 01/09/2016 to 31/08/2017.

9. Jawatankuasa Akreditasi, Faculty of Science, Universiti Malaya, 01/09/2016 to 31/08/2017.
10. Jawatankuasa Komputer dan Laman Web, Institute of Mathematical Sciences, Universiti Malaya, 01/09/2016 to 31/08/2017.
11. Auditor Dalam Faculty of Science, Universiti Malaya, 01/10/2016 to 31/10/2016.
12. Committee Projek Sains Matematik, Institute of Mathematical Sciences, Universiti Malaya, 27/08/2012 to 28/09/2016.
13. Panel Penasihat Akademik (Matematik Komputeran & Industri), Faculty of Science, Universiti Malaya, 27/08/2013 to 31/12/2016
14. Jawatankuasa SPECTRUM E-Learning Faculty of Science, Universiti Malaya, 02/11/2012 to 01/11/2013.

MEMBERSHIPS

1. EDUCATUM Journal of Science, Mathematics and Technology (EJSMT - ISSN 2289-7070 / eISSN 2462-2451), Committee Member, Since 2018 (*National*)
2. Malaysian Mathematical Sciences Society, Life Member, Since 2013 (*National*)
3. Golden Key International Honour Society, Life Member, Since 1998 (*International*)

TEACHING

1. Numerical Methods and Analysis
2. Mathematical Methods
3. Computational Fluid Dynamics
4. Computer Graphics
5. Introduction to Computing
6. Analysis of Mathematical Models
7. Ordinary Differential Equation
8. Structured Programming
9. Computing Methods
10. Scientific Computing
11. Vector Analysis
12. Classical Mechanics
13. Basic Engineering Algebra
14. Understanding Computer in Mathematics
15. Foundation Mathematics
16. Applied Differential Equations
17. Discrete Mathematics

PUBLICATIONS

* Corresponding author

2022

1. M. S. Asmadi, R. Md. Kasmani, **Z. Siri**, and H. Saleh. Thermal enhancement effects of buoyancy driven heat transfer of hybrid nanofluid confined in a tilted U-shaped cavity. *Journal of Applied Fluid Mechanics*, 15(2), 337-348.
2. S Akter, M Ferdows, S MD, **Z Siri**. Similarity solution for induced magnetic field boundary layer flow of metallic nanofluids via convectively inclined stationary/moving flat plate: Spectral relaxation computation, *ZAMM-Journal of Applied Mathematics and Mechanics*, Early View e202100179.
3. E Aruchunan, MS Muthuvalu, **Z Siri**, SSA Kumar, J Sulaiman, JVL Chew. Examination of Half-Sweep Closed Newton–Cotes Quadrature Schemes in Solving Dense System. *Towards Intelligent Systems Modeling and Simulation*, 413-430

2021

4. M.S. Asmadi, **Siri, Z.**, * R.M. Kasmani, H. Saleh. Nanoparticle shape effect on the natural convection heat transfer of hybrid nanofluid inside a U-shaped enclosure. *Thermal Science*, 139-139.
5. Wong H. F., Noor N. F. M., Siri Z. Viscous heating and cooling process in a mixed convection cavity with free-slip effect. *Case Studies in Thermal Engineering*, 28, 101349.
6. Mohammed K. A. Kaabar, Said R. Grace, Jehad Alzabut, Abdullah Özbekler, **Zailan Siri***. 2021. On the Oscillation of Even-Order Nonlinear Differential Equations with Mixed Neutral Terms. *Journal of Function Spaces*.
7. Sharifah Nuriza Binti Syed Muhammad Naquib Al'aidrus, **Zailan Bin Siri***, Mohd Nashrul Bin Mohd Zubir. Marangoni Convection of Nanofluid in a wavy Trapezoidal Enclosure, *Thermal Science* 25 (Special Issue 2), 339-345.
8. Peter Ngbo Habu, Noor N. F. M., **Siri Z***. Mass Transfer And Cattaneo-Christov Heat Flux For A Chemically Reacting Nanofluid In A Porous Medium Between Two Rotary Disks. *Thermal Science* 25 (Special Issue 2), 179-184.
9. Saleh, H., **Siri, Z.**, Ghalambaz, M. Natural convection from a bottom heated of an asymmetrical U-shaped enclosure with nano-encapsulated phase change material (2021). *Journal of Energy Storage*, 38, art. no. 102538.
10. K Naganthran, R Nazar, Z Siri, I Hashim. Entropy Analysis and Melting Heat Transfer in the Carreau Thin Hybrid Nanofluid Film Flow. *Mathematics* 9 (23), 3092.
11. Z. Baitiche, C. Derbazi, J. Alzabut, M.E. Samei, M.K.A. Kaabar, **Siri, Z.*** Monotone Iterative Method for ψ -Caputo Fractional Differential Equation with Nonlinear Boundary Conditions (2021). *Fractal and Fractional* 5 (3), 81.
12. M.K.A. Kaabar, M. Kaplan, **Siri, Z.*** New Exact Soliton Solutions of the ()-Dimensional Conformable Wazwaz–Benjamin–Bona–Mahony Equation via Two Novel Techniques (2021). *Journal of Function Spaces* 2021.
13. M.K.A. Kaabar, A. Refice, M.S. Soud, F. Martínez, S. Etemad, **Siri, Z.*** Existence and UHR Stability of Solutions to the Implicit Nonlinear FBVP in the Variable Order Settings (2021). *Mathematics* 9 (14), 1693.

14. Wong, H.F., Sohail, M., **Siri, Z.**, Noor, N.F.M. Numerical Solutions for Heat Transfer of an Unsteady Cavity with Viscous Heating (2021). *Computers, Materials and Continua*, 68 (1), pp. 319-336.
15. Asmadi, M.S., Md. Kasmani, R., **Siri, Z.**, Saleh, H. Thermal performance analysis for moderate Rayleigh numbers of Newtonian hybrid nanofluid-filled U-shaped cavity with various thermal profiles (2021). *Physics of Fluids*, 33 (3), art. no. 032006.
16. Asmadi, M.S., Md. Kasmani, R., **Siri, Z.***, Sivasankaran, S. Upper-convected Maxwell fluid analysis over a horizontal wedge using Cattaneo-Christov heat flux model (2021). *Thermal Science*, 25 (2 Part A), pp. 1013-1021.
17. Asmadi, M.S., **Siri, Z.***, Kasmani, R.M. Convective Mass and Heat Transfer of Sakiadis Flow of Magnetohydrodynamic Casson Fluid Over a Horizontal Surface Employing Cattaneo-Christov Heat Flux Model (2021). *Malaysian Journal of Mathematical Sciences*, 15 (1), pp. 125-136.
18. Pushpa, B.V., Sankar, M., Prasanna, B.M.R., **Siri, Z.** Influence of Thin Baffle and Magnetic Field on Buoyant Convection in a Vertical Annulus (2021). *Lecture Notes in Mechanical Engineering*, pp. 105-119.
19. S.A. Qasem, S. Sivasankaran, **Siri, Z.***, W.A.M Othman. Effect of thermal radiation on natural convection of a nanofluid in a square cavity with a solid body (2021). *Thermal Science* 25 (3 Part A), 1949-1961.
20. E.Aruchunan and **Z. Siri.** (2021). Numerical Investigation of Composite Simpson's Second Rule in Solving Fourth-Order Integro-Differential Equations. *Middle East International Conference On Contemporary Scientific Studies-V*, March 27-28, Ankara, Turkey, ISBN - 978-625-7898-38-6.

2020

21. Zaharuddin, S.D.A.S., **Siri, Z.***, Saleh, H., Hashim, I. Buoyant Marangoni convection of nanofluids in right-angled trapezoidal cavity (2020). *Numerical Heat Transfer; Part A: Applications*, 78 (11), pp. 656-673.
22. Khalid, I.K., Mokhtar, N.F.M., Ibrahim, Z.B., **Siri, Z.** Rayleigh-Bénard convection in Maxwell nanofluids layer saturated in a rotating porous medium with feedback control subjected to viscosity and thermal conductivity variations (2020). *Applied Nanoscience (Switzerland)*, 10 (8), pp. 3085-3095.
23. Mahmud, M.N., **Siri, Z.**, Vélez, J.A., Pérez, L.M., Laroze, D. Chaotic convection in an Oldroyd viscoelastic fluid in saturated porous medium with feedback control (2020). *Chaos*, 30 (7), art. no. 073109.

2019

24. Saleh, H., **Siri, Z.**, Hashim, I. Role of fluid-structure interaction in mixed convection from a circular cylinder in a square enclosure with double flexible oscillating fins (2019). *International Journal of Mechanical Sciences*, 161-162, art. no. 105080.
25. Khalid, I.K., Mokhtar, N.F.M., **Siri, Z.**, Ibrahim, Z.B., Abd Gani, S.S. Magnetoconvection on the Double—Diffusive Nanofluids Layer Subjected to Internal Heat Generation in the Presence of Soret and Dufour Effects (2019). *Malaysian Journal of Mathematical Sciences*, 13 (3), pp. 397-418.
26. Satish Kumar, D., **Siri, Z.**, Rao, D.S., Anusha, S. Predicting student's campus placement probability using binary logistic regression (2019). *International Journal of Innovative Technology and Exploring Engineering*, 8 (9), pp. 2633-2635.
27. Mohammed, M.A., Ibrahim, A.I.N., **Siri, Z.**, Noor, N.F.M. Mean Monte Carlo Finite Difference Method for Random Sampling of a Nonlinear Epidemic System (2019). *Sociological Methods and Research*, 48 (1), pp. 34-61.
28. Md Kasmani, R., Sivasankaran, S., Bhuvanewari, M., Alshomrani, A.S., **Siri, Z.** Soret and Dufour

effects on doubly diffusive convection of nanofluid over a wedge in the presence of thermal radiation and suction (2019). *Scientia Iranica*, 26 (5 B), pp. 2817-2826.

2018

29. Qasem, S.A., Sivasankaran, S., **Siri, Z.***, Othman, W.A.M. Effect of solid body aspect ratio on natural convection of nanofluid in a square cavity (2018). *Journal of Physics: Conference Series*, 1139 (1), art. no. 012082.
30. Che Ghani, N.A., **Siri, Z.*** MHD flow of Carreau nanofluid over a stretching surface with suction/injection and slip effects by using Haar wavelet quasilinearization method (2018). *Journal of Physics: Conference Series*, 1139 (1), art. no. 012073.
31. **Siri, Z.***, Ghani, N.A.C., Kasmani, R.M. Heat transfer over a steady stretching surface in the presence of suction (2018). *Boundary Value Problems*, 2018 (1), art. no. 126.
32. Mohammed, M.A., Noor, N.F.M., Ibrahim, A.I.N., **Siri, Z.** A non-conventional hybrid numerical approach with multi-dimensional random sampling for cocaine abuse in Spain (2018). *International Journal of Biomathematics*, 11 (8), art. no. 1850110.
33. Khalid, I.K., Mokhtar, N.F.M., **Siri, Z.**, Ibrahim, Z.B., Gani, S.S.A. Effects of internal heat source and sores on the onset of Rayleigh-Bénard convection in a nanofluid layer (2018). *AIP Conference Proceedings*, 1974, art. no. 020015.
34. Ibrahim, R.W., Qasem, S.A., **Siri, Z.** Generalized Φ -dichotomous linear part for a class of generalized differential equations (2018). *Annals of the University of Craiova, Mathematics and Computer Science Series*, 45 (1), pp. 1-10.
35. **Zailan Siri***, Siti Norfarahin Hasan, Rose Irnawaty Ibrahim. Chaos of Double Diffusive Convection in the Presence of Feedback Control Strategy. *International Journal of Applied Physics and Mathematics* (2018). 8(2), 10-17.

2017

36. Khalid, I.K., Mokhtar, N.F.M., **Siri, Z.**, Ibrahim, Z.B., Gani, S.S.A. The effect of magnetic field on Marangoni convection in a nanofluid layer with internal heat source (2017). *AIP Conference Proceedings*, 1905, art. no. 030020.
37. Khalid, I.K., Mokhtar, N.F.M., Bakri, N.A., **Siri, Z.**, Ibrahim, Z.B., Gani, S.S.A. On oscillatory magnetoconvection in a nanofluid layer in the presence of internal heat source and Soret effect (2017). *AIP Conference Proceedings*, 1905, art. no. 030021.
38. Mokhtar, N.F.M., Khalid, I.K., **Siri, Z.**, Ibrahim, Z.B., Gani, S.S.A. Control strategy on the double-diffusive convection in a nanofluid layer with internal heat generation (2017). *Physics of Fluids*, 29 (10), art. no. 107105.

2016

39. Cheong, H.T., Sivasankaran, S., **Siri, Z.*** Natural convection in an oblique porous cavity with non-uniform heating (2016). *AIP Conference Proceedings*, 1750, art. no. 030010.
40. Kasmani, R. M., Sivasankaran, S., Bhuvaneshwari, M., **Siri, Z.** Effect of chemical reaction on convective heat transfer of boundary layer flow in nanofluid over a wedge with heat generation/absorption and suction (2016). *Journal of Applied Fluid Mechanics*, 9 (1), pp. 379-388.

2015

41. Hari, N., Sivasankaran, S., Bhuvanewari, M., **Siri, Z.** Effects of chemical reaction on MHD mixed convection stagnation point flow toward a vertical plate in a porous medium with radiation and heat generation (2015). *Journal of Physics: Conference Series*, 662 (1), art. no. 012014.
42. Kasmani, R.M., Sivasankaran, S., Bhuvanewari, M., **Siri, Z.** Effect of thermal radiation and suction on convective heat transfer of nanofluid along a wedge in the presence of heat generation/absorption (2015). *AIP Conference Proceedings*, 1682, art. no. 020008.
43. Mohammed, M.A., Noor, N.F.M., **Siri, Z.**, Ibrahim, A.I.N. Numerical solution for weight reduction model due to health campaigns in Spain (2015). *AIP Conference Proceedings*, 1682, art. no. 020005.
44. Cheong, H.T., Sivasankaran, S., Bhuvanewari, M., **Siri, Z.** Effects of various thermal boundary conditions on natural convection in porous cavities (2015). *AIP Conference Proceedings*, 1682, art. no. 020007.
45. Qasem, S.A., Ibrahim, R.W., **Siri, Z.** On mild and strong solutions of fractional differential equations with delay (2015). *AIP Conference Proceedings*, 1682, art. no. 020049.
46. Ibrahim, R.W., **Siri, Z.** Existence of a coupled system of fractional differential equations (2015). *AIP Conference Proceedings*, 1682, art. no. 020001.
47. Ibrahim, R.W., Qasem, S.A., **Siri, Z.** Existence results for a family of equations of fractional resolvent (2015). *Sains Malaysiana*, 44 (2), pp. 295-300.
48. Ibrahim, R.I., **Siri, Z.** A study on longevity factor: The case of government pensioner in Malaysia (2015). *International Journal of Business and Society*, 16 (1), pp. 147-161.
49. **Zailan Siri*** & Siti Norfarahin Hasan. 2015. Chaos Of Double Diffusive Convection In The Present Of Feedback Control. *Prosiding Simposium Kebangsaan Sains Matematik Ke-22*.
50. Nor Artisham Che Ghani, Amran Hussin & **Zailan Siri***. 2015. Analysis Of Three Different Haar Wavelet Methods For Solving Boundary Value Problems. *Prosiding Simposium Kebangsaan Sains Matematik Ke-22*.
51. Mohammed S. Mechee, Fudziah Ismail & **Zailan Siri**. 2015. Order Conditions Of Direct Integrators Of Runge- Kutta Type For Special Third-Order Ordinary And Delay Differential Equations. *Prosiding Simposium Kebangsaan Sains Matematik Ke-22*.

2014

52. Mechee, M., Ismail, F., Hussain, Z.M., **Siri, Z.** Direct numerical methods for solving a class of third-order partial differential equations (2014). *Applied Mathematics and Computation*, 247, pp. 663-674.
53. Senu, N., Mechee, M., Ismail, F., **Siri, Z.** Embedded explicit Runge-Kutta type methods for directly solving special third order differential equations $y''' = f(x, y)$ (2014). *Applied Mathematics and Computation*, 240, pp. 281-293.
54. Mechee, M., Ismail, F., **Siri, Z.**, Senu, N. A four-stage sixth-order RKD method for directly solving special third-order ordinary differential equations (2014). *Life Science Journal*, 11 (3), art. no. 57, pp. 399-404.
55. **Siri, Z.***, Ibrahim, R.I. Natural convection in a triangular enclosure filled with porous media (2014). *AIP Conference Proceedings*, 1635, pp. 235-240.
56. Ibrahim, R.I., **Siri, Z.** The impact on pension liabilities of Malaysian government pension scheme from remarriage due to removal of pension clause (2014). *AIP Conference Proceedings*, 1635, pp. 327-331.
57. Kasmani, R.M., Sivasankaran, S., **Siri, Z.** Convective heat transfer of nanofluid past a wedge in the

presence of heat generation/absorption with suction/injection (2014). AIP Conference Proceedings, 1605, pp. 506-511.

58. Ibrahim, R.I., **Siri, Z.** Analysis of mortality trends by specific ethnic groups and age groups in Malaysia (2014). AIP Conference Proceedings, 1605, pp. 1002-1006.
59. **Siri, Z.***, Liew, K.Y., Ibrahim, R.I. Butterfly effect in porous Bénard convection heated from below (2014). AIP Conference Proceedings, 1605, pp. 137-142.
60. Cheong, H.T., Sivasankaran, S., **Siri, Z.***. Effect of wall inclination on natural convection in a porous trapezoidal cavity (2014). AIP Conference Proceedings, 1605, pp. 343-348.
61. Mechee, M.S., Ismail, F., **Siri, Z.**, Senu, N. A third-order direct integrators of Runge-Kutta type for special third-order ordinary and delay differential equations (2014). Asian Journal of Applied Sciences, 7(3), pp. 102-116.

2013

62. Goh, B.S., Leong, W.J., **Siri, Z.** Partial Newton methods for a system of equations (2013). Numerical Algebra, Control and Optimization, 3 (3), pp. 463-469.
63. Mechee, M., Senu, N., Ismail, F., Nikouravan, B., **Siri, Z.** A three-stage fifth-order Runge-Kutta method for directly solving special third-order differential equation with application to thin film flow problem (2013). Mathematical Problems in Engineering, 2013, art. no. 795397.
64. Mechee, M., Ismail, F., Senu, N., **Siri, Z.** Directly solving special second order delay differential equations using Runge-Kutta-Nyström method (2013). Mathematical Problems in Engineering, 2013, art. no. 830317.
65. Cheong, H.T., **Siri, Z.**, Sivasankaran, S. Effect of aspect ratio on natural convection in an inclined rectangular enclosure with sinusoidal boundary condition (2013). International Communications in Heat and Mass Transfer, 45, pp. 75-85.
66. Cheong, H.T., **Siri, Z.***, Sivasankaran, S. Natural convection in an inclined square enclosure subject to sinusoidal temperature profile (2013). AIP Conference Proceedings, 1522, pp. 68-75.
67. Sivasankaran, S., Bhuvanewari, M., **Siri, Z.**, Hashim, I. Effect of discrete heating on magneto-convection in a cavity (2013). AIP Conference Proceedings, 1522, pp. 544-552.
68. Idris, R., **Siri, Z.**, Hashim, I. On a five-dimensional chaotic system arising from double-diffusive convection in a fluid layer (2013). Abstract and Applied Analysis, 2013, art. no. 428327.

2012

69. Ibrahim, R.I., **Siri, Z.** A study on longevity factors for the new and old government pension policies in Malaysia (2012). Malaysian Journal of Economic Studies, 49 (2), pp. 111-119.
70. Pervin, S., **Siri, Z.**, Uddin, M.N. Newton-Raphson based computation of id in the field weakening region of IPM motor incorporating the stator resistance to improve the performance (2012). Conference Record - IAS Annual Meeting (IEEE Industry Applications Society), art. no. 6374004.
71. Pervin, S., Nasir Uddin, M., **Siri, Z.** Improved dynamic performance of IPMSM over wide speed range based on numerical computation of id in the field weakening region (2012). International Review on Modelling and Simulations, 5 (5), pp. 2042-2048.

2011

72. Ibrahim, R.I., **Siri, Z.** Methods of expanding an abridged life tables: Comparison between two methods (2011). Sains Malaysiana, 40 (12), pp. 1449-1453.

2009

73. **Siri, Z.***, Hashim, I. Control of oscillatory of Bénard-Marangoni convection in rotating fluid layer (2009). 2009 International Conference on Signal Processing Systems, ICSPS 2009, art. no. 5166929, pp. 938-941.
74. Hashim, I., **Siri, Z.** Feedback control of thermocapillary convection in a rotating fluid layer with free-slip bottom (2009). *Sains Malaysiana*, 38 (1), pp. 119-124.
75. **Siri, Z.***, Mustafa, Z., Hashim, I. Effects of rotation and feedback control on Bénard-Marangoni convection (2009). *International Journal of Heat and Mass Transfer*, 52 (25-26), pp. 5770-5775.
76. Ismail, F., **Siri, Z.**, Othman, M., Suleiman, M. Parallel execution of diagonally implicit Runge-Kutta methods for solving IVPs (2009). *European Journal of Scientific Research*, 26 (4), pp. 480-489.
77. Zailan Siri, Ishak Hashim. 2009. Stabilization of steady Benard-Marangoni convection in rotating fluid layer. 5th Asian Mathematical Conference. PWTC, Kuala Lumpur, Malaysia.

2008

78. **Siri, Z.***, Hashim, I. Control of oscillatory Marangoni convection in a rotating fluid layer (2008). *International Communications in Heat and Mass Transfer*, 35 (9), pp. 1130-1133.
79. Hashim, I., **Siri, Z.** Stabilization of steady and oscillatory Marangoni instability in rotating fluid layer by feedback control strategy (2008). *Numerical Heat Transfer; Part A: Applications*, 54 (6), pp. 647-663.
80. **Zailan Siri*** & Ishak Hashim. 2008. Active Control of Marangoni Convection in Rotating Fluid Layer with a Free-Slip Bottom. *Prosiding Kebangsaan Matematik dan Masyarakat*, hlm. 406-416.
81. **Zailan Siri***, Ishak Hashim. 2008. Control of Marangoni convection in a rotating fluid layer with a free-slip bottom. *Prosiding Simposium Kebangsaan Sains Matematik ke-16 (SKSM16)*, pp. 139 144, 3 5 Jun 2008.
82. **Zailan Siri***, Ishak Hashim, Rozaini Roslan. 2008. The onset of thermocapillary convection in a rotating fluid layer with free-slip bottom, 3rd International Conference in Mathematical Sciences. College of Science, United Arab Emirates University, Al-Ain, UAE. *Mac* 3 6, 2008, pp. 107 123.
83. **Zailan Siri*** and Ishak Hashim. 2008. Benard-Marangoni Instability in a Rotating Fluid Layer With Feedback Control Strategy. *Proceeding The 3rd International Conference on Mathematics and Statistics*.

2007

84. **Siri, Z.***, Ismail, F., Othman, M., Suleiman, M. Parallel execution of block Runge-Kutta methods for solving ordinary differential equations (2007) *European Journal of Scientific Research*, 18 (2), pp. 255-266.

MASS MEDIA (NEWSPAPER, RADIO, TV, POPULAR MAGAZINE)

2021

79. **Zailan Siri**, Rose Irnawaty Ibrahim. (2021). Mampukah Kita Memasuki Fasa Kedua Pelan Pemulihan Negara (PPN). *Tinta Minda BERNAMA*. Diterbitkan pada 7 Julai 2021.

RESEARCH PROJECT

GERAN PENYELIDIKAN UNIVERSITI MALAYA (UMRG)

1. Small and Moderate Vadasz Number Chaotic Convection in an Anisotropic Porous Cavity in the Presence of Feedback Control, Principal Investigator, 2017 to 2018. RM 57,500
2. Numerical Investigation of Convective Boundary Layer Flow and Heat Transfer, Principal Investigator, 2014 to 2015. RM 81,000
3. Mathematical Modelling of Cooling of Electronic Systems, Consultant, 2012 to 2015 (*National*). RM 58,000
4. Low-Prandtl-number chaotic Marangoni convection, Principal Investigator, 2011 to 2012. RM 3,000
5. Low-Prandtl-Number Chaotic Marangoni Convection Using Proper Orthogonal Decomposition, Principal Investigator, 2011 to 2014. RM 6,000

**FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS),
MINISTRY OF HIGHER EDUCATION, MALAYSIA**

1. Heterogenous Hybrid Graphene-based Nanofluids in Non-Newtonian Flows, Co-Researcher, 01 November 2020 to 31 October 2022. RM 78,800
2. Effect of Nanoparticles Shapes on Natural Convection Heat Transfer of Hybrid Nanofluid in a U-Shaped Enclosure Divided by a Flexible Partition, Co-Researcher, 01 November 2020 to 31 October 2023. RM 105,100
3. Buoyant Marangoni Convection of Nanofluids in a Trapezoidal Enclosure, Principal Investigator, 01 November 2020 to 31 October 2022. RM63,200
4. Fundamental analysis on Cattaneo-Christov Heat Flux Model on Heat Transfer of Boundary Layer Flow over a Wedge, Co-Researcher, 15 August 2017 to 14 August 2019. RM 49,000
5. Newtonian and Non-newtonian Nanofluid Boundary Layer Flows Under Influence Of Both Zero And Nonzero Normal Fluxes., Co-Researcher, 02 November 2015 to 01 May 2018. RM 70,000
6. A New Logical Framework for Numerical Methods in Optimazation, Nonlinear Algebraic Equations and Least Squares Problems, Co-Researcher, 2013 to 2015. RM 102,400
7. Modelling of Boundary Layer Flow and Heat Transfer in A Viscous Fluid with Newtonian Heating And Under Mixed Thermal Boundary Conditions, Co-Researcher, 2011 to 2013. RM 85,000
8. Mathematical Modelling and Computer Implementation of Pension Costs Projection, Co-Researcher, 2011 to 2013. RM 60,000

POSTGRADUATE RESEARCH GRANT, UNIVERSITI MALAYA

1. Numerical Analysis On Natural Convection In Enclosures With Different Geometries, Principal Investigator, 20 March 2015 to 04 April 2017, Research University. RM 2,300
2. Natural Convection in an Enclosure with Constant/Variables Sidewalls Temperature, Principal Investigator, 2012 - 2013. RM 9,200

BANTUAN KECIL PENYELIDIKAN, UNIVERSITI MALAYA

1. Approximate Solutions for Non Linear Differential Equations in Fluid Mechanics, Consultant, 2012 - 2014. RM 22,200

SHORT TERM RESEARCH FUND, UNIVERSITI MALAYA

1. Effect of Feedback Control on Thermocapillary Convection, Principal Investigator, 2008 to 2009. RM 50,000
2. Effect of temperature-dependent viscosity on stability of fluid layers in microgravity environment - Ph.D. research, 2008 to 2010. Study Leave.

RU GERAN – FAKULTI PROGRAM, UNIVERSITI MALAYA

1. Modeling The Income of The Upper Class Group In Malaysia Using New Pareto Distribution, Co-Researcher, 15 September 2020 to 14 September 2022, Research University. RM 45,800
2. Computer-Aided Geometric Design and Its Application to Cryptography, Co-Researcher, 01 September 2018 to 31 May 2021, Research University. RM 41,414
3. Mathematical Modelling of Entropy Generation in Boundary Layer Flow Over a Prolate Spheroid, Co-Researcher, 01 September 2018 to 28 February 2021, Research University. RM 7,600

MINISTRY OF HIGHER EDUCATION TOP 100 IIRG-IISS

1. Development of Analytical and Computational Modelling of Heat Transfer and Hydrodynamic Characteristics On Patterned and Coated Surface Subjected To Convective Evaporation Process, Principal Investigator, 28 November 2019 to 27 May 2022, Research University. RM 85,205

GERAN PENYELIDIKAN UNIVERSITI MALAYA - FRONTIER SCIENCE (UMRG - AFR)

1. Small and Moderate Vadasz Number Chaotic Convection In An Anisotropic Porous Cavity In The Presence Of Feedback Control, Principal Investigator, 15 November 2017 to 22 October 2019, Research University. RM 57,500
2. Mathematical Modelling On Convective Boundary Layer Flow Using Nanofluids, Co-Researcher, 25 May 2013 to 28 February 2016, Research University. RM 50,000
3. Numerical Investigation Of Convective Boundary Layer Flow And Heat Transfer, Principal Investigator, 13 June 2014 to 13 February 2016, Research University. RM 40,000

SUPERVISION

POSTGRADUATE STUDENT

COMPLETED

Doctor of Philosophy

1. Sayyedah Abdullah Qasem Saeed (SHB160005), A Study of Fluid Flow Problem In A Nanofluid In Differentially Heated Cavity Having An Adiabatic Block, 2021.
2. Nor Artisham Binti Che Ghani (SHB130004), Extended Haar Wavelet Quasilinearization Method For Solving Boundary Value Problems, 2018.
3. Maha Abduljabbar Mohammed (SHB130006), Modified Finite Difference Method Using Random Sampling For Nonlinear Epidemic Models, 2018.
4. Ruhaila Md Kasmani (SHB120009), Numerical Study On Convective Boundary Layer Flow And Heat Transfer Of Nanofluid Over A Wedge, 2017.

5. Niranjan Hari (SHB120007), MHD Mixed Convection Stagnation-Point Flow of A Chemically Reacting Fluid Over A Plate In A Porous Medium With Radiation, 2017.
6. Cheong Huey Tyng (SHB140002), Numerical Study On Natural Convection In Enclosures With Different Geometries, 2016.
7. Mohammed Sahib Abed (SHB100019), Direct Integrators of Explicit Runge-Kutta Type For Special Third-Order Ordinary Differential Equations And Their Application, 2014.

Master of Science (Research)

1. Adibah Binti Nazarudin (SGP150001), Effect of Feedback Control with Linear And Non-Linear Temperature Gradients To Some Convection Problems, 2020.
2. Muhammad Solleh Bin Asmadi (SMA170010), Convective Heat Transfer of Cattaneo-Christov Heat Flux Model Over A Wedge, 2019.
3. Sayyedah Abdullah Qasem Saeed (SGP130004), Computational Studies On A Class Of Nonlinear Fractional Differential Equations, 2015.
4. Cheong Huey Tyng (SGP110003), Numerical Study On Natural Convection In Inclined Enclosures With Non-Uniform Boundary Conditions, 2013.
5. Shahida Pervin (SGP110002), Numerical Investigation of The Performance Of Interior Permanent Magnet Synchronous Motor Drive, 2012.

ON-GOING

Doctor of Philosophy

1. Zarith Sofiah Othman, (S2005435/1), Boundry Layer Flow Past A Horizontal Plate Using Cattaneo-Christov Heat Flux Model, 2021.
2. Mohammed Kaabar (S203493/1), Approximate Analytical Methods for solving the Fractional Partial Differential Equations with Applications from Physics and Engineering, 2021.
3. Wan Nor Ashikin Wan Ahmad Fatthi, (S2035867/1), A Multi-Objectives Optimization Model On Multimodal Transportation Network, 2021.
4. Muhammad Aziz (S2005994/1), Modelling and Measurement on Pricing and Reserving of Long-Term Care Insurance, 2020.
5. Muhammad Solleh Bin Asmadi (17036152/4), Computational Fluid Dynamics, 2020.
6. Robiatul Adawiah binti Edrus (SVA190016), Measuring Longevity Risk In Malaysian Retirement Scheme, 2019.

7. Sharifah Nuriza Binti Syed Muhammad Naquib Al'aidrus (SVA190030), Development Of Analytical And Computational Modelling Of Heat Transfer And Hydrodynamic Characteristics On Patterned And Coated Surfaces Subjected To Convective Evaporation Process, 2019.
8. Saiyidatul Saadah Binti Ahmad Nizam (SVA180056), Modeling of Magnetohydrodynamic Non-Newtonian Nanofluid Blood Flow In Stenosis Artery, 2018.
9. Habu Peter Ngbo (SVA170067), MHD Nanofluid Flow Embedded In A Porous Medium Between Two Rotating Stretchable Disks With Cattaneo-Christov Heat Flux, 2017.

Master of Science (Research)

1. Ng Wei Li (17143301/2), Convective Heat Transfer of Cattaneo Heat Flux Model Over Hybrid Nanofluid, 2021.
2. Anis Syazwani Abd Raof (S2035430/1), Modelling income of the upper-class group using new Pareto distribution, 2020.
3. Farah Arina Binti Ibrahim, Mathematical Modelling of Impact On Heat Transfer Due to Changes of Fin Structured Internal Tube Surface In Annular Pipe Heat Exchanger, 2020.
4. Lee Zhen Huah (17202639/1), Solving Fractional Differential Equations Using Artificial Neural Network, 2019.
5. Sharifah Dini Afiqah Binti Syed Zaharuddin (SMA180041), Numerical Simulation of Melting Phase-Change Process Through Natural Convection Heat Transfer, 2018.

THESIS EVALUATION

EXTERNAL EXAMINER

Doctor of Philosophy

1. Sriraman V. Vellore Institute of Technology, India. Oscillatory and Asymptotic Behavior of Generalized Higher Order Quasilinear A-Difference Equations, 2021.
2. Niranjana C M. Visvesvaraya Technological University Mathematical Solution for One, Two and Three Dimensional Chemical Transport with Simultaneous Adsorption, Zero Order Production and First Order Decay. 2021.
3. Muhammad Tahir. University of The Punjab, Lahore-Pakistan. Analytical Study On Optical Solitons and Exact Traveling Wave Solutions of Nonlinear Partial Differential Equations, 2020.
4. K. Jagan. Bharathiar University, India. Effect of Non-Linear Thermal Radiation on Convective Flow of Nanofluid Over a Stretching Surface by Homotopy Analysis Method, 2018.
5. Kiran S, Visvesvaraya Technological University, India. Effect of Wall Heat Conduction on Natural Convection Heat Transfer in a Cylindrical Annular Enclosure, 2017.

6. Subramanyam Reddy. Heat and Mass Transfer Effects on a Viscous Fluid in Flow Regions with Expanding or Contracting Porous Walls, 2014.

Master of Science (Research)

1. Sara Syahrannisaa Binti Mustapha (M20181001455). Universiti Pendidikan Sultan Idris. An Efficient Implementation of Runge-Kutta Gauss Methods Using Variable Stepsize Setting, 2020.
2. Rfaat Soliby Moner Hanan (GW180025). Universiti Tun Hussin Onn Malaysia. Solving Transport-Density Equation With Diffusion Using The First Integral Method And The Generalized Hyperbolic Functions Method, 2020.
3. Hasmawani Binti Hashim (MSE14001). Universiti Malaysia Pahang. Free/Mixed Convection Boundary Layer Flow Past Horizontal Circular Cylinder with Temperature Dependent Viscosity, 2020.
4. Syazwani Binti Mohd Zokri (PSE15005). Universiti Malaysia Pahang. Convective Boundary Layer Flow of Jeffrey Fluid And Jeffrey Nanofluid Over Various Surfaces, 2019.
5. Nur Zarifah Binti Abdul Hamid. Universiti Putra Malaysia. Effect of Nonlinear Temperature Profile On Thermal Convection In A Binary Fluid Saturated An Anisotropic Porous Medium, 2019.
6. Hazirah Mohd Azmi (GSK1609). The Effects Of Controller And Temperature Gradients To The Onset Of Convection In Non-Newtonian Fluid. Universiti Malaysia Terengganu. 2015.

INTERNAL EXAMINER

Doctor of Philosophy

1. Mir Asma (SHB160012). Optical Soliton Perturbation with Quadratic-Cubic Nonlinearity. 2020.
2. Nadhirah binti Abdul Halim (SHB130011). Stagnation-Point Flow of Non-Newtonian Nanofluids With Active And Passive Controls Of Nanoparticles. 2019.
3. Waleeda Swaidan Ali (SHB100017). Numerical Methods For Nonlinear Optimal Control Problems Using Haar Wavelet Operational Matrices. 2015.

Master of Science (Research)

1. Tengku Muhammad Ihsan bin Tengku Hishamuddin (17014319/1 SMA170044), Deteriorating Items with Consideration of Preservation Factor. 2020.
2. Nurnadiah binti Nurhasril (SGP130002), A Two-Warehouse Inventory Model with Rework Process and Time-Varying Demand. 2020.
3. Dicky Lim Teik Kyee (SGP130001), The Development of Matheuristics for Production-Inventory-Distribution Routing Problem. 2018.
4. Najwa Ahda Binti Ramly (SGP130009). Active and Passive Control of Convective Flow and Heat Transfer of Nanofluid over a Surface. 2016.

ACADEMIC ACTIVITIES

1. Committee, 2020 2nd International Conference on E-Business and E-commerce Engineering (EBEE 2020), 18/12/2020 to 21/12/2020.
2. Presentation Jury, 2020 2nd International Conference on E-Business and E-commerce Engineering (EBEE 2020), 18/12/2020 to 21/12/2020.
3. Session Chair, 2020 2nd International Conference on E-Business and E-commerce Engineering (EBEE 2020), 18/12/2020 to 21/12/2020.
4. Panel Penilai, Audit Luar Program Sarjana Muda Sains Matematik Universiti Kebangsaan Malaysia, 21/06/2019 to 28/06/2019
5. Ketua Pemeriksa, Matematik Matrikulasi 2018 to present.
6. Ketua Panel Pentaksir Soalan, Matematik Matrikulasi, 2018 to present.
7. Penggubal Soalan, Matematik Matrikulasi 2014 to present.
8. Ketua Kumpulan Pemeriksa, Matematik T STPM 954/2, 2013 to present.
9. Pemeriksa Penyemakan Semula, Matematik T STPM 954/2, 2015 to present.
10. Penggubal Soalan, Matematik STPM 954/2, 2012 to present.
11. Panel Pentaksir Soalan, Matematik Matrikulasi, 2013 to 2018.
12. Ketua Kumpulan Pemeriksa, Matematik Matrikulasi 2013 to 2018.
13. Pemeriksa, Matematik Matrikulasi 2011 to 2013.
14. Pemeriksa, Matematik T STPM 954/2, 2012 to 2013.
15. Fasilitator, Bengkel Penyediaan Huraian Sukatan Pelajaran Program Matrikulasi, 30/09/2014 to 03/10/2014.
16. Penceramah Jemputan, Bengkel Penilaian dan Peperiksaan, 24/09/2014 to 24/09/2014
17. Jawatankuasa Penganjur Utama, Simposium Kebangsaan Sains Matematik ke-22, 03/02/2014 to 28/11/2014

SOCIAL & COMMUNITY ACTIVITIES

1. Sukarelawan, Matematik Tambahan SPM, Nilai, Negeri Sembilan, 2014 – present.
2. Sukarelawan, Matematik SPM, Nilai, Negeri Sembilan, 2014 – present.
3. Sukarelawan, Matematik PMR, Nilai, Negeri Sembilan, 2014 – present.
4. Ahli, Muafakat MRSM Kuala Klawang, Negeri Sembilan, 2017 – 2022.
5. Bendahari, Pertubuhan Penduduk Impiana Villa, Bandar Baru Nilai, Negeri Sembilan., 2014 -2016

6. AJK PIBG, Sekolah Kebangsaan Desa Jasmin, 71800 Bandar Baru Nilai, Negeri Sembilan, 24/03/2012 to 23/03/2013.
7. Ahli PIBG Sekolah Kebangsaan Desa Jasmin, Bandar Baru Nilai, Negeri Sembilan, 2011 to 2016.
8. Setiausaha, Kolej Kediaman Ke-7, 01/07/2006 to 30/06/2007.
9. Bendahari, Kolej Kediaman Ke-7, 01/07/2005 to 30/06/2006.
10. Penyelia, Kolej Kediaman Ke-7, 01/07/2004 to 30/06/2007.

ACADEMIC/PROFESSIONAL SERVICES

ACADEMIC/PROFESSIONAL SERVICES

1. Panelist/Moderator. International Virtual Courses - Summer School on Future Mathematics and its Applications, 26/07/2021 to 06/08/2021, International.
2. Reviewer Pertanika Journal of Science Technology, 25/06/2021 to 09/07/2021, National.
3. Panel Temuduga Biasiswa MyBrainSc 2021, 24/06/2021 to 31/07/2021, National.
4. Ketua Panel Pentaksir, Soalan Matematik Matrikulasi Kementerian Pendidikan Malaysia, 25/05/2021 to 28/05/2021, National.
5. Fasilitator Semakan Spesifikasi Kurikulum Matrikulasi Kementerian Pendidikan Malaysia, 10/05/2021 to 11/05/2021, National.
6. Reviewer for Simposium Kebangsaan Sains Matematik 28, 02/04/2021 to 31/05/2021, National.
7. Internal Evaluator. Mygrants Evaluation, 2021, National.
8. Reviewer. The 5th International Conference on Computing, Mathematics and Statistics 2021, 01/01/2021 to 31/12/2021, International.
9. External Assessor. Advanced Calculus for Science & Engineering Students, 10/11/2020 to 07/01/2021, National.

AWARD AND STEWARDSHIP

1. Certificate of Excellent Service. Universiti Malaya, 2020.
2. General Achievements. Pakar Bidang Matematik STPM, Majlis Peperiksaan Malaysia, 2020.
3. Certificate of Appreciation. Mentoring Mathematics Program, Institut Sains Matematik, UM, 2020.
4. Certificate of Appreciation. FRGS Evaluator, Faculty of Science, Universiti Malaya, 2020.
5. Certificate of Appreciation. The 2020 2nd International Conference on E-Business and E-commerce Engineering, 2020.
6. General Achievements/ Pakar Bidang Matematik STPM, Majlis Peperiksaan Malaysia, 2019.

7. Certificate of Excellent Service. Universiti Malaya, 2018.
8. Certificate of Appreciation. Chairperson for the session with the theme "Mathematical Modelling", Sunway University & Institut Statistik Malaysia, 2018.
9. Judge. 8th Exposition on Islamic Innovation 2018, Universiti Sains Islam Malaysia, 2018.
10. Certificate of Reviewing. Alexandria Engineering Journal, 2015
11. Certificate of Excellent Service. Universiti Malaya, 2014

CONSULTANCY PROJECT

1. Projek Unemployment Rate. Universiti Malaya & Rating Agency Malaysia, 01/12/2020 to 01/12/2021, National.
2. External Advisor. (Postgraduate Programme by Research, Sunway University, Malaysia, 01/12/2020 to 01/12/2023, National.
3. Panel Penilai Program Pengajian Sarjana Muda Sains Matematik, Universiti Kebangsaan Malaysia, 01/12/2019 to 01/12/2019, National.
4. Panel Penilai. 7Semakan Dokumen Standard Kurikulum dan Pentaksiarn (DSKP) Matematik Tambahan Tingkatan 5, Kementerian Pendidikan Malaysia, 01/12/2018 to 01/12/2018, National.
5. Panel. Semakan Semula Program Akademik Universiti Perguruan Sultan Idris - Sarjana Muda Pendidikan (Matematik), 01/12/2018 to 01/12/2018. National.
6. Panel. Huraian Sukatan Pelajaran Program Matrikulasi Kementerian Pendidikan Malaysia, Bahagian Matrikulasi Kementerian Pendidikan Malaysia, 01/02/2014 to 01/02/2014, National.
7. Fasilitator. Bengkel Penilaian dan Peperiksaan, Fakulti Kejuruteraan Awam Universiti Teknologi MARA (UiTM) Shah Alam, 01/01/2014 to 01/01/2014, National.
8. External Advisor/ A new logical framework for numerical methods in optimazation, nonlinear algebraic equations and least squares problems., Curtin Sarawak Research Institute, Malaysia, 01/01/2013 to 01/01/2015, National.

PAPER PRESENTED

INVITED SPEAKER

1. Haar Wavelet-Quasilinearization Method for the Numerical Solution of Ordinary Differential Equations, International Conference on Control, Optimization and Differential Equations, 18/01/2017 to 20/01/2017, Universiti Putra Malaysia (National)

EVENT ORGANISER

1. LATEX for Beginner, Bengkel Latex for Beginner Pada 11 Disember 2020 Jam 9.00 Pagi Hingga 12.00 Tengah Hari Secara Atas Talian, 11/12/2020 To 11/12/2020, Institut Sains Matematik, Universiti Malaya (University)

PRESENTER

1. Model Fitting for Malaysian Mortality Rate: Comparison of Heligman-Pollard and P-Splines Smoothing, Simposium Kebangsaan Sains Matematik 28, 28/07/2021 to 29/07/2021, Universiti Malaysia Pahang & Persatuan Sains Matematik Malaysia.
2. Novel Analytical and Approximate-Analytical Techniques for Solving Fractional Partial Differential Equations, 4th International E-Conference on Mathematical Advances and Applications, 26/05/2021 to 29/05/2021, Yildiz Technical University.
3. Numerical Investigation of Composite Simpson's Second Rule in Solving Fourth-Order Integro-Differential Equations., Middle East International Conference On Contemporary Scientific Studies-V, 27/03/2021 to 28/03/2021, Middle East International Conference On Contemporary Scientific Studies-V.
4. Fitting Malaysian mortality rate by using P-spline Smoothing, Institut Sains Matematik Virtual Research Seminar 2020, 22/09/2020 to 23/09/2020, Institut Sains Matematik, Universiti Malaya.
5. Haar Wavelet-Quasilinearization Method For The Numerical Solution of Ordinary Differential Equations, Applied Mathematics Colloquium (AMC 2017), 23/08/2017 to 23/08/2017, Institut Sains Matematik, Universiti Malaya.
6. Control of Oscillatory of Benard-Marangoni Convection in Rotating Fluid Layer., International Conference on Applied Physics and Mathematics (ICAPM 2009), 16/05/2009 to 17/01/2015, IEEE.
7. The Onset of Rayleigh-Benard Electroconvection in a Micropolar Fluid with the Presence of Feedback Control, The 3rd ISM International Statistical Conference, 09/08/2016 to 11/08/2016, Institute of Mathematical Sciences, Universiti Malaya.
8. Feedback Control of Linear Temperature Profile on Rayleigh-Benard-Marangoni Convection in Ferrofluids, Simposium Kebangsaan Sains Matematik 22, 2016, 27/09/2016 to 29/09/2016, Universiti Malaya Terengganu & Persatuan Sains Matematik Malaysia.
9. Chaos of double diffusive convection in the presence of feedback control strategy, 2015 5th International Conference on Applied Physics and Mathematics, 12/02/2015 to 13/02/2015, American Society for Research.
10. Effects of chemical reaction on MHD mixed convection stagnation point flow, ICOVP 2015, International Conference on Vibration Problems toward a vertical plate in a porous medium with radiation and heat generation, 18/02/2015 to 20/02/2015, Kakatiya University, Warangal Warangal, Telangana, India.
11. Numerical Solution for Body Weight Reduction Model Due to Health Campaigns in Spain, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).

12. Effect of Thermal Radiation and Suction On Convective Heat Transfer of Nanofluid along a Wedge in The Presence of Heat Generation/Absorption, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).
13. Effects of Various Thermal Boundary Conditions On Natural Convection in Porous Cavities, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).
14. Continuation of Mild Solutions of Fractional Differential Equations with Delay, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).
15. Existence of a Coupled System of Fractional Differential, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).
16. Order Conditions of Direct Integrators of Runge-Kutta Type for Special Third-Order Ordinary Equations, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).
17. Chaos of Double Diffusive Convection in the Present of Feedback Control, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).
18. Natural Convection in A Triangular Enclosure Filled with Porous Media., The 3rd International Conference on Quantitative Sciences and its Applications., 12/08/2014 to 14/08/2014, Universiti Utara Malaysia.
19. Analysis of Three Different Haar Wavelet Methods for Solving Boundary Value Problems, Simposium Kebangsaan Sains Matematik ke-22, 24/11/2014 to 26/11/2014, Universiti Malaya & Persatuan Sains Matematik Malaysia (PERSAMA).
20. New Clause of Remarriage: Impact on Pension Liabilities of Malaysian Government Pension Scheme., The 3rd International Conference on Quantitative Sciences and its Applications, 12/08/2014 to 14/08/2014, Universiti Utara Malaysia.
21. Kesan Kecondongan Dinding ke atas Olakan Tabii dalam Kaviti Trapezoid Berliang, Simposium Kebangsaan Sains Matematik 21, 06/11/2013 to 08/11/2013, Universiti Sains Malaysia & Persatuan Sains Matematik Malaysia.
22. Analysis of Mortality Trends by Specific Ethnic Groups and Age Groups in Malaysia, Simposium Kebangsaan Sains Matematik 21, 06/11/2013 to 08/11/2013, Universiti Sains Malaysia & Persatuan Sains Matematik Malaysia.
23. Aliran Olakan, Pemandahan Haba dan Jisim Nanobendalir Melalui Baji dengan Kehadiran Penjanaan/Penyerapan Haba Beserta Sedutan/Suntikan, Simposium Kebangsaan Sains Matematik 21, 06/11/2013 to 08/11/2013, Universiti Sains Malaysia & Persatuan Sains Matematik Malaysia.
24. Effect of inclination on free convection in a square cavity, Seminar in Mathematical Sciences 2013, 25/10/2013 to 27/10/2013, Institut Sains Matematik, Universiti Malaya.
25. Study the Impact on Pension Liabilities as the Age of Retirement Increases, International Conference on Business and Economics Research - ICBER 2013, 28/09/2013 to 29/09/2013, International Economics Development Research Center (IEDRC).

26. Dynamical System of Saturated Porous Medium of Benard Convection Heated from Below, International Conference on Computing, Mathematics and Statistics 2013, 28/08/2013 to 29/08/2013, Universiti Teknologi MARA, Kedah.
27. "Butterfly effect" in porous Benard convection heated from below., Simposium Kebangsaan Sains Matematik ke-21., 06/11/2013 to 08/11/2013, Universiti Sains Malaysia.
28. Peralihan dari Keadaan Mantap ke Kalut Olakan Benard Dipanaskan dari Bawah, Simposium Kebangsaan Sains Matematik 21, 06/11/2013 to 08/11/2013, Universiti Sains Malaysia & Persatuan Sains Matematik Malaysia.
29. Analysis of mortality trends by specific ethnic groups and age groups in Malaysia. Simposium Kebangsaan Sains Matematik ke-21., 06/11/2013 to 08/11/2013, Universiti Sains Malaysia.
30. Effect of wall inclination on natural convection in a porous trapezoidal cavity., Simposium Kebangsaan Sains Matematik ke-21., 06/11/2013 to 08/11/2013, Universiti Sains Malaysia.
31. Convective heat transfer of nanofluid past a wedge in the presence of heat generation/absorption with suction/injection., Simposium Kebangsaan Sains Matematik ke-21., 06/11/2013 to 08/11/2013, Universiti Sains Malaysia.
32. Natural convection in inclined square enclosure subject to sinusoidal temperature profile., Simposium Kebangsaan Sains Matematik ke-20., 18/12/2012 to 20/12/2012, Universiti Kebangsaan Malaysia.
33. Effect of discrete heating on magneto-convection in cavity, Simposium Kebangsaan Sains Matematik ke-20., 18/12/2012 to 20/12/2012, Universiti Kebangsaan Malaysia.
34. Newton-Raphson based computation of id in field weakening region of IPM motor incorporating the stator resistance to improve the performance., Industry Applications Society Annual Meeting (IAS), 2012 IEEE., 07/10/2012 to 11/11/2012, IEEE.
35. Methods of Expanding Abridged Life Tables: Comparison between Two Methods, Seminar Kebangsaan Sains Komputer dan Matematik (SKSKM 2010), 21/12/2010 to 22/12/2010, Universiti Teknologi MARA, Sabah.
36. Stabilization of steady Benard-Marangoni convection in rotating fluid layer, 5th Asian Mathematical Conference., 22/06/2009 to 26/06/2009, Universiti Sains Malaysia.
37. Benard-Marangoni Instability in a Rotating Fluid Layer with Feedback Control Strategy, The 3rd International Conference on Mathematics and Statistics (ICoMS-3), 05/08/2008 to 06/08/2008, Institut Pertanian Bogor, Indonesia.
38. Control of oscillatory Marangoni convection in a rotating fluid layer., Simposium Kebangsaan Sains Matematik ke-16., 03/06/2008 to 05/06/2008, Universiti Malaysia Terengganu.
39. Onset of Thermocapillary Instability in a Rotating Fluid Layer with Feedback Control., The Third International Conference on Mathematical Sciences- ICM 2008, 03/03/2008 to 06/03/2008, Department of Mathematical Sciences, College of Science, UAEU.
40. Active Control of Marangoni Convection in a Rotating Fluid Layer with a Free-Slip, Seminar Kebangsaan Matematik & Masyarakat 2008, 13/02/2008 to 14/02/2008, Universiti Malaysia Terengganu.

41. Numerical Investigation of Marangoni Convection with Feedback Control Strategy, Kolokium Pusat Pengajian Sains Matematik, Universiti Kebangsaan Malaysia., 25/01/2008 to 25/01/2008, Pusat Pengajian Sains Matematik, Universiti Kebangsaan Malaysia.