

CURRICULUM VITAE

Personal Detail

Name : Norhayati Binti Rosli
Date of Birth : 28 May 1981
Place of Birth : Kuantan, Pahang
Address : Faculty of Industrial Sciences & Technology,
Universiti Malaysia Pahang,
Lebuhraya Tun Razak,
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Education

- 1) PhD (Mathematics), Universiti Teknologi Malaysia, Skudai, Johor, Malaysia, December 2012.
(Academic Visitor: 01 April 2011-30 April 2011, University of Strathclyde, UK)
 - 2) MSc (Statistics), Universiti Sains Malaysia, Pulau Pinang. 01 August 2005.
 - 3) BSc (Pure Mathematics) with honors, Universiti Sains Malaysia, Pulau Pinang. 01 August 2003.
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Working Experience

- 1) 28/08/2019 – Current - Associate Professor, Pusat Sains Matematik, Universiti Malaysia Pahang
 - 2) 04/2012 – 27/08/2019 – Senior Lecturer, Universiti Malaysia Pahang
 - 3) 06/2006-04/2012 – Lecturer, Universiti Malaysia Pahang
 - 4) 09/2005-05/2006 – Tutor, Universiti Malaysia Terengganu (KUSTEM)
 - 5) 04/2005-09/2005 – Research Officer, Universiti Sains Malaysia, Pulau Pinang
-

Association Membership

Malaysian Mathematical Sciences Society (PERSAMA), Lifetime Member

Teaching & Learning Innovation

- 1) **Norhayati Rosli**, Rozieana Khairuddin, Mohd Zuki Salleh, Noraziah Adzhar, Nadirah Mohd Nasir, Nurfatihah Mohamad Hanafi, Published Open Course Ware (OCW) Slides for Numerical Methods Course, <http://ocw.ump.edu.my/course/view.php?id=449>

Subject Taught

YEAR: 2019				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
19201/CSM	MSM4474	Advanced Numerical Methods	4	4
19201/CSM	MSM4413	Computational Methods In Industry	3	2
19201/CSM	MSM4910	Dissertation I	8	7
19201/CSM	MSM5920	Dissertation II	13	1
19201/CSM	BUM1133	Mathematics For Computer Graphics	3	28
19201/CSM	BUM2313	Numerical Methods	3	26
18192/CSM	MSM4474	Advanced Numerical Methods	4	1
18192/CSM	MSM4413	Computational Methods In Industry	3	7
18192/CSM	MSM4910	Dissertation I	8	1
YEAR : 2018				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
18191/IJA	MSM4413	Computational Methods In Industry	3	3
18191/IJA		Applied Mathematics		
17182/IJA	BUM2313	Numerical Methods	3	58
YEAR : 2017				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
17181/IJA	BUM2313	Numerical Methods	3	132
16172/IJA	BUM2313	Numerical Methods	3	188
YEAR : 2016				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
16171/DIP	DUM1123	Calculus	3	79
15162/IJA	BUM2313	Numerical Methods	3	48
YEAR : 2015				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
15161/IJA	BUM2313	Numerical Methods	3	63
14152/IJA	BUM2313	Numerical Methods	3	35
YEAR : 2014				

Semester	Subject Code	Subject	Credit Hour	Total Of Student
14151/IJA	BUM2313	Numerical Methods	3	99
13142/MAS	MSE5020	Research Project 2		1
13142/DOC	PSE6020	Research Project 2		1
13142/IJA	BUM2313	Numerical Methods	3	37
YEAR : 2013				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
13141/MAS	MSE5010	Research Project 1		1
13141/DOC	PSE6010	Research Project 1		1
13141/IJA	BUM2313	Numerical Methods	3	195
12132/IJA	BMM2112	Engineering Mathematics 3	2	1
12132/IJA	BUM2313	Numerical Methods	3	233
12132/IJA	BET2553	Numerical Methods & Statistics	3	2
12132/MAS	MSE5010	Research Project 1		1
YEAR : 2012				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
12131/IJA	BMM2112	Engineering Mathematics 3	2	2
12131/IJA	BUM2313	Numerical Methods	3	204
11122/IJA	BMM2112	Engineering Mathematics 3	2	4
11122/IJA	BUM2313	Numerical Methods	3	467
YEAR : 2008				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
08091/IJA	BKU2032	Probability & Statistics	2	155
07083/IJA	BKU2032	Probability & Statistics	2	5
YEAR : 2007				
Semester	Subject Code	Subject	Credit Hour	Total Of Student
07082/IJA	BKU1023	Engineering Mathematics li	3	131
07082/IJA	BKU2032	Probability & Statistics	2	65
07081/IJA	BKU2032	Probability & Statistics	2	111
06073/IJA	BKU2032	Probability & Statistics	2	13
YEAR : 2006				

Semester	Subject Code	Subject	Credit Hour	Total Of Student
06072/IJA	BKU2032	Probability & Statistics	2	166
06071/DIP	DKT1113	Mathematics 1	3	46
06071/DIP	DKT1143	Mathematics II	3	1
06071/DIP	DKK3172	Statistics & Quality Control	2	48

Research Collaborators

International Research Collaborator

- 1) **Professor Xuerong Mao**, Department of Mathematics and Statistics, University of Strathclyde Livingstone Tower 26 Richmond Street, Glasgow, G1 1XT, Scotland, U.K, (x.mao@strath.ac.uk), Tel: +44 141 548 3669
- 2) **Dr Iftikhar Ahmad**, Department of Mathematics, University of Gujrat, Gujrat Pakistan (dr.iftikhra@uog.edu.pk), Tel: +923335228694.

Local Research Collaborators

- 1) **Associate Profesor Dr Solachuddin Jauhari Arief Ichwan**, Kuliyyah of Dentistry, International Islamic University Malaysia, Pahang (solachuddin@iium.edu.my).
- 2) **Associate Profesor Dr Madihah Md Salleh**, Department of Biology, Faculty of Bioscience and Bioengineering, Universiti Teknologi Malaysia, Skudai, Johor.
- 3) **Associate Profesor Dr Noraziah Ahmad**, Senior Lecturer, Fakulti Sistem Komputer & Kejuruteraan Perisian UMP, Pahang (noraziah@ump.edu.my)
- 4) **Dr Arifah Bahar**, Senior Lecturer, Department of Mathematics, Faculty of Science, Universiti Teknologi Malaysia, Skudai, Johor (arifah@utm.my)
- 5) **Dr Yeak Su Hoe**, Senior Lecturer, Department of Mathematics, Faculty of Science, Universiti Teknologi Malaysia, Skudai, Johor (s.h.yeak@utm.my)
- 6) **Dr Ummu Kulthum Binti Jamaludin**, Senior Lecturer, Faculty of Mechanical Engineering, Universiti Malaysia Pahang (ummu85@ump.edu.my)

Research Grants (On-Going)

- 1) Modelling of Cancer Cell Proliferation and Death in Response to Anticancer Therapeutics of Thymoquinone (TQ). Project Leader, RDU1901139. FRGS, 1 Sept 2019 – 31 August 2022, RM 88000.00.
- 2) STOCHASTIC MODELING OF APOPTOTIC ACTIVITIES INDUCED BY THYMOQUINONE (TQ) AS ANTICANCER THERAPEUTIC IN CANCER GROWTH PROCESS. **Project Leader**, PGRS 1903202, 15 Oct 2019 – 14 Oct 2022, RM 4150.00.
- 3) Development of Fifth-Stage Stochastic Runge-Kutta (SRK5) Method for Stochastic Differential Equations. **Project Leader**, RDU180301. UMP Internal Grant, 1 April 2018-31 Mac 2020.
- 4) Implicit Stochastic Runge-Kutta Method for Stochastic Differential Equations. **Project Leader**, RDU1703190. Internal Grant, 30 June 2017- 29 December 2019.
- 5) Development of Mathematical Model and Simulation for Enzymatic Hydrolysis of Cellulose in a Stirred Tank. **Co-researcher**, RDU160116. FRGS, 1 August 2016 - 31 July 2019.

- 6) A Simulated Annealing Approach for Redesigning a Warehouse Network Problem. **Co-researcher**, RDU1703292. Internal Grant, 20 September 2017-19 September 2019.
- 7) Mathematical Model for Convective Boundary Layer Stagnation Flow Past a Sheet in Viscoelastic Fluid and Williamson Nanofluid. **Co-researcher**, RDU1703187. Internal Grant, 30 June 2017-29 June 2019.
- 8) Numerical Solutions for the Aligned Magnetic Field of Viscous and Williamson Fluid with Dust Particle over a Stretching Sheet, **Co-researcher**, RDU170328. Internal Grant, 1 March 2017-1 March 2019.
- 9) Exact Solution of Heat and Mass Transfer on Unsteady Boundary Layer Flow in a Micropolar Fluid Past an Oscillating Plate with Newtonian Heating, **Co-researcher**, RDU170354, Internal Grant, 15 April 2017 – 14 April 2019.

Research Grant (Completed)

- 1) Stochastic Model of Cancer Growth with the Effect of Glycosaminoglycans (GAGs) as Anticancer Therapeutics. **Project Leader**, RDU130122, FRGS, 01/12/2013 -30/11/2017, RM108,800.
- 2) Stochastic Logistic Model with Time Delay of Solvent Production by *C. Acetobutylicum* P262. **Project Leader**, RDU121303, RACE, 15 November 2012 – 14 November 2014. RM46000.
- 3) Mathematical Modelling of Convective Boundary Layer Flow of Jeffrey Fluid Under Convective Boundary Condition, **Co-researcher**, RDU160330, 25/05/2016-24/05/2018, RM20000.
- 4) Pressure-Impulse Theory for Wave Impact on Inclined Seawalls, **Co-researcher**, RDU140108 (FRGS), 01/07/2014- 30/06/2016, RM 72,200.
- 5) Modelling of Radiation Effects On Magnetohydrodynamic (MHD) Convection Over Sphere And Cylinder With Convective Boundary Conditions, **Co-researcher**, RDU140111 (FRGS), 01/07/2014- 30/06/2016, RM 80,200.
- 6) Stochastic Taylor Approximation of Stochastic Delay Differential Equations. **Project Leader**, RDU120362, (UMP Internal Grant), 15 Julai 2012 – 14 Dec 2014, RM 28,000.00.
- 7) Stochastic Logistic Model With Time Delay of Solvent Production by *C. Acetobutylicum* P262. **Project Leader**, RDU121303 (RACE), 15/11/2012 - 14/11/2014, RM46,000.
- 8) Topological Description of Epileptic Seizure Via Flat EEG, **Co-researcher**, RDU141307 (RACE), 01/02/2014- 31/01/2016, RM 43,000.
- 9) The Convection Boundary Layer Flow Over a Horizontal Circular Cylinder With Convective Boundary Conditions, **Co-researcher**, RDU121302 (RACE), 15/11/2014- 14/11/2015, RM 45,000.
- 10) Persistent and Permanent Properties of First Stage DNA Splicing Languages via Yusuf-Goode Approach, **Co-researcher** RDU130354 (UMP Internal Grant), 25/06/2013 -24/06/2015.
- 11) The Convection Boundary Layer Flow over a Horizontal Circular Cylinder with Convective Boundary Conditions, **Co-researcher**, RDU121302 (RACE), 15/11/2012-14/11/2015, RM 45,000..
- 12) Mathematical Models of MHD Flow and Heat Transfer For The Upper-Convected Maxwell Fluid Over a Stretching/Shrinking Sheet, **Co-researcher**, RDU120390 (UMP Internal Grant), 01/10/2012-30/09/2014, RM 13,000. A New Fault Tolerance Algorithm on Binary Vote Assingment Grid (BVAG) Replication Control Protocol to Preserve Data Availability. **Co-researcher**, RDU120331 (UMP Internal Grant), 1 Jun 2012 –31 Mei 2014, RM 28,800.00.
- 13) Essential Oil Production from Patchouli (*Pogostemon*) Cablin and Waste Recovery, **Co-researcher**, RDU070302, 14/01/2007-30/03/2009, RM 107,546.84.
- 14) Development of Novel Catalyst for Biodiesel Production from Waste Cooking Oil, **Co-researcher**, RDU070374, 03/09/2007-09/02/2008,
- 15) Numerical Solution of Stochastic Delay Differential Equations, **Co-researcher/ PhD Student** FRGS vote no. 78526, 01 April 2010-30 Sepetember 2012, RM50,400.00.

Supervision

PhD (Main –supervisor)

- 1) Muhammad Bilal, Solution of Boundary Value Problems by New Computational Approach, 22 October 2015 – present, Correction of the Pre-VIVA.

- 2) Noor Julailah Binti Abd Mutalib, Stochastic Runge-Kutta Fehlberg Method for Stochastic Differential Equations, 9 September 2016 – present.
- 3) Shabana Tabassum, Stochastic Modeling of Apoptotic Activities Induced by Thymoquinone (TQ) as Anticancer Therapeutic in Cancer Growth Process, December 2018 – present.
- 4) Mazma Syahidatul Ayuni Binti Mazlan, Stochastic Model of Cancer Growth with the Effect of Glycosaminoglycans (GAGs) as Anticancer Therapeutics, **Graduated**.
- 5) Noor Amalina Nisa Binti ARiffin, Fifth Stage Stochastic Runge-Kutta Method for Stochastic Differential Equations, **Graduated**.

Master Student (Main-supervisor)

- 6) Tawfiqullah Ayubi, Stochastic Modelling with Time Delay of Solvent Production by *C. Acetobutylicum* P262, 2013-2015, **Graduated**.

Master Student (Co-supervisor)

- 7) Nazila Ishak, Mathematical Models for Free or Mixed Convection Boundary Layer Flows over a Sphere Under Convective Boundary Conditions, 2012 - present.
- 8) Mohammad Luqman Bin Humaidi, Monte Carlo Simulation of Incretin Effects in Glucose-Insulin Control System for Critical Care, 23 March 2016 – present.
- 9) Lim Wen Li, Single-Stage DNA Splicing System Via Yusuf-Goode Approach, 20 May 2013 - 2015. **Graduated**.
- 10) Sayed Qasim Alavi, Boundary Layer Stagnation Point Flow Towards and Exponentially Stretching/ Shrinking Sheet, 13 May 2013 – 2015, **Graduated**.

Publications

Accepted

Journal (Main/ Corresponding author)

- 1)

Published

Journal (Main/ Corresponding author)

- 1) Shabana Tabassum, **Norhayati Rosli**, Mazma Syahidatul Ayuni Mazlan, Mathematical Modeling of Cancer Growth Process: A Review. Journal of Physics: Conference Series. 1366 (2019) 012018. **Indexed by Scopus**.
- 2) Muhamad Bilal, **Norhayati Rosli**, Iftikhar Ahmad, Safi Ulah. Numerical Solution of Second Order Delay Type Differential Equation by Collocation Method via First Boubeker Polynomials. Global Journal of Pure and Applied Mathematics, 13(9), 6571-6582, 2017. **Indexed by Scopus**
- 3) Mazma Syahidatul Ayuni Mazlan, **Norhayati Rosli**, Solachuddin Jauhari Arief Ichwan & Nina Suhaity Azmi. Modelling the Cancer Growth Process by Stochastic Differential Equations with the Effect of Chondroitin Sulfate (CS) as Anticancer Therapeutics. Journal of Physics: Conference Series. 890 012083 (2017). **Indexed by Scopus**.
- 4) Adam Samsudin, **Norhayati Rosli** & Noor Amalina Nisa Ariffin. Stability Analysis of Explicit and Implicit Stochastic Runge-Kutta Methods for Stochastic Differential Equations. Journal of Physics: Conference Series. 890 012084 (2017). **Indexed by Scopus**.
- 5) Noor Amalina Nisa Ariffin, **Norhayati Rosli**, Mazma Syahidatul Ayuni Mazlan & Adam Samsudin. Performance of Stochastic Runge-Kutta Methods in Approximating the Solution of Stochastic Model in Biological System. Journal of Physics: Conference Series. 890 012085 (2017). **Indexed by Scopus**.

- 6) Mazma Syahidatul Ayuni Mazlan, **Norhayati Rosli**, Nina Suhaity Azmi, Modelling the Cancer Growth Process by Stochastic Delay Differential Equations under Verhultz and Gompertz's Law, *Jurnal Teknologi*, 78 (3-2), 77-82, 2016. **Indexed by Scopus**
- 7) Mazma Syahidatul Ayuni Mazlan, **Norhayati Rosli** and Arifah Bahar, Modelling the Cervical Cancer Growth Process by Stochastic Delay Differential Equations, *Sains Malaysiana*. 44(8), 1153-1157, 2015. **Indexed and abstracted in ISI Thomson Reuters, Impact factor 0.446, Q3.**
- 8) **Norhayati Rosli &** Noor Amalina Nisa Ariffin. Derivation of Stochastic Taylor Methods for Stochastic Differential Equations. *Malaysian Journal of Fundamental and Applied Sciences*. 13(3), 159-164 (2017). Indexed in **SCOPUS**.
- 9) **Norhayati Rosli**, Arifah Bahar, S. H. Yeak & Haliza Abdul Rahman, Stochastic Taylor Methods for Stochastic Delay Differential Equations, *MATEMATIKA*, 29 (1c) (2013), 241-251, Indexed in **SCOPUS**.
- 10) **Norhayati Rosli**, Arifah Bahar, Yeak Su Hoe and Xuerong Mao, A Systematic Derivation of Stochastic Taylor Methods for Stochastic Delay Differential Equations, *Bulletin of the Malaysian Mathematical Sciences Society*, 36(3), 2013: 555–576. (**Indexed and Abstracted in ISI, Impact factor 0.779**)
- 11) **Norhayati Rosli**, Arifah Bahar, S. H. Yeak & Haliza Abdul Rahman, Stochastic Taylor Methods for Stochastic Delay Differential Equations, *MATEMATIKA*, 29(1c), 2013, 241-251, **SCOPUS**.
- 12) **Norhayati Rosli**, Arifah Bahar, Yeak Su Hoe, Haliza Abd.Rahman, Mohd.Khairul Bazli Mohd.Aziz & Madihah Salleh. Stochastic Growth Model and Solvent Production by *C. Acetobutylicum* P262, *Journal of Statistical Modeling and Analytics*, Volume 2, No 2, 2011.
- 13) **Norhayati Rosli**, Arifah Bahar, Yeak Su Hoe, Haliza Abd.Rahman, Madihah Salleh & Mohd.Khairul Bazli Mohd.Aziz , The Performance of Euler-Maruyama, 2-Stage SRK and 4 Stage SRK in Approximating the Strong Solution of Stochastic Model, *Sains Malaysiana*, Vol. 39(5), 851- 857, 2010. (**Indexed and Abstracted in ISI, IMPACT FACTOR 0.152**).
- 14) **Norhayati Rosli** and Wan Muhamad Amir Wan Ahmad, A Matrix Variance Inequality for k functions. *Jurnal Matematika*, Universiti Teknologi Malaysia, Jld. 23, 2007.

Journal (Co-author)

- 15) Sayed Qasim Alavi, Abid Hussanan, Abdul Rahman Mohd Kasim, **Norhayati Rosli**, Mohd Zuki Salleh. MHD Stagnation Point Flow Towards an Exponentially Stretching Sheet with Prescribed Wall Temperature and Heat Flux. *Int. Journal Applied Computational Mathematics*. 1-13 (2017). ISI.
- 16) Wen Li Lim, Yuhani Yusof, Norhayati Rosli and Mohammad Hassan Mudaber, [Modelling the Behaviour of Single Stage Splicing Language: A Yusof Goode Computational Approach](#), *Jurnal Teknologi*, 73 (1), 135-138, (2015) Indexed by **SCOPUS**.
- 17) Haliza Abd Rahman, Arifah Bahar & **Norhayati Rosli**, Parameter Estimation of Lotka-Volterra Model: A Two-Step Model, *Jurnal Teknologi*, 63(2), 2013: 21-25. (**Scopus**)
- 18) Haliza Abd Rahman, Arifah Bahar, **Norhayati Rosli** & Madihah Md Salleh, Parameter Estimation of Stochastic Differential Equation. *Sains Malaysiana* 41(12), 2012: 1635-1642. (**Indexed and Abstracted in ISI, IMPACT FACTOR 0.268**).
- 19) Haliza Abd. Rahman, Arifah Bahar, **Norhayati Rosli**, Mohd Khairul Bazli and Madhah Md. Salleh, Parameter Estimation of stochastic differential equation: Bayesian Regression Spline, *Jurnal KALAM*, Volume 3, No. 1, July 2010, 13-22.
- 20) Haliza Abd.Rahman, Arifah Bahar, Mohd.Khairul Bazli Mohd.Aziz, **Norhayati Rosli**, Madihah Salleh & Gerhard-Wilhelm Weber , Parameter Estimation of Stochastic Logistic Model: Levenberg Marquardt Method, *MATEMATIKA*, 2009, Volume 25, Number 2, 91–106.
- 21) A.Noraziah, M. Mat Deris, M.Y. M. Saman, **R.Norhayati**, M.Rabiei, W.N.W. Shuhadah, "Managing Transaction on Grid-Neighbour Replication in Distributed System, *International Journal of Computer Mathematics*, Taylor and Francis, Vol. 86, Issue 9, Sept. 2009, pp.1624-1633 (**ISI IMPACT FACTOR 0.489**).

- 22) A. Noraziah, M. Mat Deris, N.A.Ahmed, M. Y. Saman, **R. Norhayati**, D.C. Norhaslida, "Neighbour Replication Transactions Processing in Distributed Systems", *Advances in Systems Science and Applications (ASSA) – International Journal of IIGSS*, Vol. 9, No 2, June 2009 [**The SCImago IMPACT FACTOR 0.339**, <http://www.scimagojr.com/journalsearch.php?q=19700175755&tip=sid&clean=0>]
- 23) A. Noraziah, **R.Norhayati**, Ahmed N. Abdalla, A.H. Roslina, M.A. Noorlin, O.M.Affendy, "A Novel Database System Model Design for Tender Management System", *Journal of Computer Science*, Science Publications, Vol.4, No 6, pp. 463-466, Oct 2008 [**The SCImago IMPACT FACTOR 0.523**, <http://www.scimagojr.com/journalsearch.php?q=11700154336&tip=sid&clean=0>].
- 24) A. Noraziah, M.Mat Deris, N.A.Ahmed, **R.Norhayati**, M.Y.Saman, M.A.Zeyad, "Preserving Data Consistency through Neighbor Replication on Grid Daemon", *American Journal of Applied Science*, Science Publications, Vol. 4, No. 10, pp. 748-755, 2007 [**The SCImago IMPACT FACTOR 0.659**, <http://www.scimagojr.com/journalsearch.php?q=6400153122&tip=sid&clean=0>].
- 25) Wan Muhamad Amir Bin W Ahmad, Nyi Nyi Naing, **Norhayati Rosli**, An Approached of Box-Cox Data Transformation To Biostatistics Experiment, *Jurnal STATISTIKA, Jurusan Statistika, Fakultas Matematika & Ilmu Pengetahuan Alam, Universitas Islam Bandung*, 6(2), December 2006

International Proceeding (Main/ Corresponding author)

- 1) Mazma Syahidatul Ayuni Mazlan & **Norhayati Rosli**. Stochastic Gompertzian Model for Breast Cancer Growth Process. AIP Conference Proceeding, 1842, 0300013, (2017). Indexed by **SCOPUS**.
- 2) Mazma Syahidatul Ayuni Mazlan and Norhayati Rosli, A Gompertzian Model with Random Effects to Cervical Cancer Growth, AIP Conference Proceeding, 1660, (2015), Indexed by **SCOPUS**.
- 3) Tawfiqullah Ayoubi, **Norhayati Rosli**, Arifah Bahar and Madihah Md Salleh, Time Delay and Noise Explaining the Behaviour of the Cell Growth in Fermentation Process, AIP Conference Proceeding, 1643, (2015), 547, Indexed by **SCOPUS**.
- 4) **Norhayati Rosli**, Arifah Bahar, S. H. Yeak and Rahimah Jusoh@Awang, 2-stage Stochastic Runge-Kutta for Stochastic Delay Differential Equations, AIP Conference Proceeding, 1660, (2015), Indexed by **SCOPUS**.
- 5) **Norhayati Rosli**, Tawfiqullah Ayoubi, Arifah Bahar, Haliza Abdul Rahman, Madihah Md Salleh, [Stochastic growth logistic model with aftereffect for batch fermentation process](#), AIP Conference Proceeding, 1602, (2014), 1168-1177, Indexed by **SCOPUS**.
- 6) **Norhayati Rosli**, Rahimah Jusoh@Awang, Arifah Bahar, Yeak Su Hoe, Mean-Square Stability Analysis of 2-stage Stochastic Runge-Kutta for Stochastic Delay Differential Equations, International Conference of Global Optimization and Its Applications (ICoGOIA 2014), 9-12 September 2014, Gallery Prawirotaman Hotel, Yogyakarta, Indonesia.
- 7) **Norhayati Rosli**, Arifah Bahar, Yeak Su Hoe & Rahimah Jusoh@Awang, 2-stage Stochastic Runge-Kutta for Stochastic Delay Differential Equations, International Conference on Mathematics Engineering & Industrial Applications (ICoMEIA 2014), 28-30 May 2014, The Gurney Resort Hotel & Residences Penang.
- 8) **Norhayati Rosli**, Tawfiqullah Ayoubi, Arifah Bahar, Haliza Abd Rahman and Madihah Md Salleh, Stochastic Growth Logistic Model with Aftereffect for Batch Fermentation Process, AIP Conference Proceedings, 2014, 1602-1168.
- 9) **Norhayati Rosli**, Arifah Bahar, Yeak Su Hoe and Haliza Abd Rahman, Stochastic Taylor Method for Stochastic Delay Differential Equations, Proceedings of the 1st ISM International Statistical Conference, 4 – 6 September 2012, 624 – 634.
- 10) **Norhayati Rosli**, Arifah Bahar, Yeak Su Hoe, Haliza Abd.Rahman, Mohd.Khairul Bazli Mohd.Aziz & Madihah Salleh. Stochastic Model of Gelatinised Sago Starch to Solvent Production by C. Acetobutylicum P262, Proceedings of the Regional Conference on Statistical Sciences 2010 (RCSS'10), ISBN: 978-967-363-157-5.
- 11) **Norhayati Rosli**, Arifah Bahar, Yeak Su Hoe, Haliza Abd.Rahman, Madihah Salleh & Mohd.Khairul Bazli Mohd.Aziz , The Performance of Euler Maruyama & 2-stage SRK in Approximating the Strong Solution of Stochastic Power Law Logistic Model, *Second International Conference and Workshops on basic & Applied*

International Proceeding (Co-author)

Proceeding

- 1) Sayed Qasim Alavi, **Norhayati Rosli** and Mohd Zuki Salleh, Numerical Solutions of the Stagnation-Point Flow and Heat Transfer Towards an Exponentially Stretching/ Shrinking Sheet with Constant Heat Flux. AIP Conference Proceeding, 1643, (2015), 541, Indexed by **SCOPUS**.
- 2) Wen Li Lim, Yuhani Yusof, **Norhayati Rosli**, [Prediction of single stage limit language and adult language via Yusof-Goode approach](#), AIP Conference Proceeding, 1602, (2014), 215-221, Indexed by **SCOPUS**.
- 3) Haliza Abd.Rahman, Arifah Bahar & **Norhayati Rosli**, Parameter estimation of Lotka-Volterra Model : A Two Step Method, Proceedings of the 1st ISM International Statistical Conference, 4 – 6 September 2012, 191 – 198.
- 4) Haliza Abd.Rahman, Arifah Bahar, Mohd.Khairul Bazli Mohd.Aziz, **Norhayati Rosli**, Madiah Salleh & Gerhard-Wilhelm Weber , Nonlinear Least Squares Estimation of Stochastic Logistic Model, Second International Conference and Workshops on basic & Applied Science & Regional Annual Fundamental Science Seminar, ICORAFSS 2009, The Zone Regency Hotel, *Johor Bahru, Malaysia*, pg44-48, ISBN 978-983-9805-75-8.
- 5) A.Noraziah, M.Mat Deris, **R.Norhayati**, M.Y.M.Saman, "Distributed Transaction Semantic for Binary Vote Assignment Grid", The Fifth International Conference On Electrical Engineering Electronics, Computer, Telecommunications And Information Technology, IEEE Xplore, Thailand, Vol. 1, pp. 41-44, Mei 2008. DOI: 10.1109/ECTICON.2008.4600368
- 6) A. Noraziah, M. Mat Deris, N.A.Ahmed, M. Y. Saman, **R. Norhayati**, D.C. Norhaslida, "Neighbour Replication Transactions Processing in Distributed System", the 5th Int'l Institute for General Systems Studies Workshop, China, 2007
- 7) A.Noraziah, M.Mat Deris, M.Y.Saman, **R.Norhayati**, M.Rabiei, W.N.W. Shuhadah, "Managing Neighbor Replication Transactions in Distribute System", 2006 Int'l Symposium on Distributed Computing and Applications Business Engineering and Science, Vol. 1, pp. 95-101, Oct. 2006

National Proceeding (Co-author)

- 8) Wan Muhamad Amir W Ahmad, Nurfadlina Abdul Halim, **Norhayati Rosli**, Zalila Ali, Mustafa Mamat, Forecasting the Numbers of Road Accident in Malaysia by using ARIMA Prosiding Seminar Nasional Statistika UNISBA ,2007.
- 9) Mustafa bin Mamat, Wan Muhamad Amir bin Wan Ahmad, Yosza bin Dasril dan **Norhayati bt Rosli (2005)**, Model Keberkesanan Pengajaran Pensyarah Mengikut Perspektif Pelajar : Suatu Kajian Kes. *Prosiding Kebangsaan Seminar Matematik dan Masyarakat 2005*, Kolej Universiti Sains Dan Teknologi Malaysia, 26 & 27 **Februari 2005**. m/s 200.
- 10) Hailiza Kamarul Haili dan **Norhayati Rosli, (2005), On The Theory Of Diophantine Approximation.** *Prosiding Simposium Kebangsaan Sains Matematik Ke XIII*, Pengintegresian Matematik Dalam Pengurusan:Teori Dan Amalan, 31 mei - 2 jun 2005. m/s 638 – 645.

Module/ Book & Chapters

- 1) **Norhayati Rosli**, Nadirah Mohd Nasir, Mohd Zuki Salleh, Rozieana Khairuddin, Nurfatimah Mohamad Hanafi & Noraziah Adzhar, Numerical Methods, UMP Publisher, 2017, ISBN 978-967-2054-00-9.
- 2) "Program RAKAN SISWA (RAKSI) – Edisi Fasilitator", *Modul Pengajaran*, Institusi Kefeloan (IKUMP), JHEPA, UMP, 2008.

- 3) "Program RAKAN SISWA (RAKSI) – Edisi Pelajar", *Modul Pengajaran*, Institusi Kefeloan (IKUMP), JHEPA, UMP, 2008.

Awards

- 1) **CiTReX 2017, Silver Medal**, Stochastic Differential Equations (SDEs) Solver.
- 2) **CiTReX 2016, Silver Medal**, Modelling the Noisy Behavior and Delay Feedback of Cervical Cancer Growth Process via Stochastic Delay Differential Equations.
- 3) **Anugerah Perkhidmatan Cemerlang 2015**, Universiti Malaysia Pahang
- 4) **MERIT AWARD 2015 - PUBLICATION (JOURNAL) CATEGORY**, Anugerah Cendekia Bitara, Universiti Malaysia Pahang
- 5) **CiTReX 2015, Silver Medal**, Stochastic Model with Delay Effect to Cervical Cancer Growth
- 6) **CiTReX 2015, Bronze Medal**, Behaviour of DNA Splicing Language Predictor.
- 7) **Hadiah Sanjungan 2013 Kategori Penerbitan**, Anugerah Cendekia Bitara' 13, Universiti Malaysia Pahang.
- 8) **CiTReX 2014, Gold Medal**, A Gompertzian Model with Random Effects to Cervical Cancer Growth.
- 9) **CiTReX 2014, Gold Medal**, Prediction of Splicing Languages
- 10) **Anugerah PERSAMA 2013** Kategori Tesis PhD. Stochastic Runge-Kutta Method for Stochastic Delay Differential Equations, PhD Tesis, Universiti Teknologi Malaysia.
- 11) **CiTReX 2013, Silver Medal**, Stochastic Modelling of Solvent Production by *C. Acetobutylicum* P262 in Fermentation Process.
- 12) **Postgraduate Best Student Award (PhD Mathematics)** in conjunction with 49th UTM convocation ceremony.
- 13) **Anugerah PERSAMA 2011 Kategori Terbitan Makalah Ilmiah**, "Performance of Euler-Maruyama, 2-Stage SRK and 4-Stage SRK in Approaximating the Strong Solution of Stochastic Model", *Sains Malaysiana*, 39(5), 851- 857, 2010.
- 14) **Best Poster Presentation Awards**. Best Poster Presentation Award *International Conference and Workshops on basic & Applied Science & Regional Annual Fundamental Science Seminar, ICORAFSS 2009, The Zone Regency Hotel, Johor Bahru, Malaysia, 2009*
- 15) **Hadiah Sanjungan 2008 Kategori Penerbitan**, Anugerah Cendekia Bitara' 08, Universiti Malaysia Pahang, 24 July 2009.

Consultation & Technical Services

- 1) July 2017 – Konsultasi Pemurnian Silibus Matematik KKTm (RM400)
- 2) Mei 2017 – February 2018 – Risk Based Inspection Calculation of Internal and External Damage Factors based on API 581 Standard for KANEKA Corporation, GEBENG (RM2901.75)
- 3) 13 April 2018- Instructor for Matlab for Beginner 1.0 Workshop, Laboratory FIST, UMP Gambang
- 4) 6 Ogos 2018 – 10 September 2018 Risk Based Inspection Calculation of Damage Factors based on API 581 Standard for Emery Oleochemicals, Selangor (RM15000)

Community Services

No	Description	Date/ Year	Organizer
1	MATEMADESA	14/07/2012 - 15/07/2012	FIST & PERSAMA
2	Olimpiad Matematik Kebangsaan 2013	July 2013	PERSAMA
3	Gotong Royong Berbuka Puasa Masjid Ump	2013	PIMPIM UMP

4	Karnival Ez-Scimat	2013	UMP
5	Gotong Royong Membersihkan Rumah Mangsa Banjir Di Sg Isap	2013	UMP
6	Olimpiad Matematik Kebangsaan 2012	July 2012	PERSAMA
7	Kembara Ramadhan Ke Rmh Kebajikan Org Tua Sri Permai	13/07/2015 - 13/07/2015	UNIK KEBAJIKAN STAF FIST
8	Olimpiad Matematik Kebangsaan 2014	July 2014	PERSAMA
9	Oh My Maths	July 2014	FIST & ECER
10	Sudoku Battle	09/03/2016 - 09/03/2016	FIST UMP
11	Olimpiad Matematik Kebangsaan 2015	July 2015	PERSAMA
12	Program Menjelang Syawal Bersama OKU PDK Titian Murni	2016	PERSAMA
13	Olimpiad Matematik Kebangsaan 2018	28 Julai 2018	PERSAMA