

CURRICULUM VITAE

PERSONAL RECORD:

Name : MOHD YUSOFF MASHOR

IC No : 670803-03-5219 (A0777996)

Sex : Male

Date of Birth : 3-8-1967

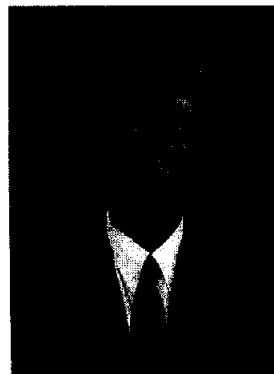
Citizenship : Malaysian

Marital Status : Married

Number of Children : 6

Research Interest : Neural Networks, Control System, System Identification, Fuzzy Systems, Intelligent Forecasting/ Prediction, Image Processing, Medical Diagnostic Systems.

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Jalan Taman Tas,
25150 Kuantan,
Pahang
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EDUCATIONAL RECORD:

<u>University</u>	<u>Qualification</u>	<u>Year</u>
Polytechnic of Central London, U.K.	B. Eng. (Hons.) in Control and Computer Engineering; (2 nd class upper)	1990
University of Sheffield, Sheffield, U.K.	M.Sc. (with distinction) in Control and Information Technology	1991
University of Sheffield, Sheffield, U.K.	Ph.D, Control Engineering	1995

WORKING EXPERIENCE:

<u>Post</u>	<u>Organisation/ Department</u>	<u>Date</u>
Lecturer	University Sains Malaysia, Department of Electrical and Electronic Engineering	26/12/1995 – 31/5/ 2005
Programme Chairman of Power Engineering	University Sains Malaysia, Department of Electrical and Electronic Engineering	Jan. 1997 - April 1998
Programme Chairman of Communication and Microelectronic	University Sains Malaysia, Department of Electrical and Electronic Engineering	April 1998 - Nov. 1999
Programme Chairman of Control and Computer Engineering	University Sains Malaysia, Department of Electrical and Electronic Engineering	Dis. 1999 – Nov. 2001
Programme Chairman of Electronic Engineering	University Sains Malaysia, Department of Electrical and Electronic Engineering	Dis. 2001 – Nov. 2003
Programme Chairman of Electronic Engineering	University Sains Malaysia, Department of Electrical and Electronic Engineering	Dis. 2003 – May 2005
Associate Professor	University Sains Malaysia, Department of Electrical and Electronic Engineering	April 2002 – May 2005
Associate Professor	Kolej University Kejuruteraan & Teknologi Malaysia Faculty of Electrical and Electronic Engineering	July 2005 – 30 Nov. 2005
Associate Professor	Kolej University Kejuruteraan Utara Malaysia School of Mechatronic Engineering	1 Dec. 2005 - present

AWARDS, MEMBERSHIP AND RECOGNITION:

International Level

1. Member of IEEE, Computer Society.
2. Member of FRIEND (Flow Regime from International Experimental and Network Data).
3. Full Financial Support by MONBUSHO to present paper at Fresh Perspective Conference at Christchurch, New Zealand, Sept. 2000.
4. Full Financial Support by MONBUSHO to present paper at International Association of Hydrological Sciences (IAHS) Conference, Cape Town, South Africa, April 2002.
5. Bronze Medal Award at International Exhibition Ideas-Inventions, -New Products (IENA-2003), 30th Oct. to 2nd Nov. 2003, Nuremberg, Germany for the research product called "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer".
6. Session Chairman of the IEEE Conference on Cybernetics and Intelligent System - CIS 2004, Singapore for session WP6, 2-4 Dec. 2004.
7. Session Chairman of the IEEE Conference on Cybernetics and Intelligent System - CIS 2004, Singapore for session TM7, 2-4 Dec. 2004.

National Level

8. Senior Member of Instrumentation & Control Society of Malaysia (ICSM).
9. Member of International Hydrology Programme (IHP) Malaysian Society.
10. Committee Member of Bio-Medical Society Malaysia.
11. Gold Medal Award at International Invention, Innovation, Industrial Design (ITEX-2003) Exhibition, 16th to 18th May 2003 - for the research product call "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer".
12. Michael Chai IT Award at International Invention, Innovation, Industrial Design (ITEX-2003) Exhibition, 16th to 18th May 2003 - for the research product called "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer".
13. Gold Medal Award at EXPO Science & Technology 2003 (MOSTE-2003), 7th to 9th August 2003 - for the research product called "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer".
14. Excellence in Engineering Research Award 2003, 3rd Nov. 2003, by Yayasan Perak for the research product called "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer".
15. Gold Medal Award at International Invention, Innovation, Industrial Design (ITEX-2004) Exhibition, 20-22 May 2004 at Mid Valley Exhibition Centre, for a research product called "Smart Portable CO Forecaster".
16. Gold Medal Award at EXPO Science & Technology 2004 (MOSTI-2004), 27-29 August 2004 at Putra World Trade Centre, exhibiting a research product called "DataPap – An Intelligent Database System for Cervical Cancer".
17. Silver Medal Award at EXPO Science & Technology 2004 (MOSTI-2004), 27-29 August 2004 at Putra World Trade Centre, exhibiting a research product called "G2C - A Low Cost Pseudocolor Ultrasound System for Gynaecology Application".
18. Gold Medal Award at International Invention, Innovation, Industrial Design (ITEX-2004) Exhibition, 19-21 May 2005, for a research product called "NeuralMammo – Diagnosis System for Breast Cancer based on Neural Network".

19. Session Chairman of International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPIA '99 (1999).
20. Session Chairman of International Conference on Artificial Intelligence In Engineering And Technology ICAIET-2002, Kota Kinabalu, Malaysia.
21. Session Chairman of International Conference on Robotics, Vision, Information and Signal Processing (ROVISP2003, Penang, Malaysia. 22-24 January, 2003).

University/ School Level

22. Anugerah Malam Sanggar Sanjung by USM, for Excellent in Research Product Category for the research product called, "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer", 16 Jan. 2004.
23. Supervisor of the Best Research Award of School of Electrical and Electronic Eng. 2004, by USM, for MSc Student Nafiza Saidin for a thesis titled "A PC based Low Cost Pseudocolouring Ultrasound System for Gynaecological Application", Dec. 2004.
24. Anugerah Malam Sanggar Sanjung by USM, Excellent in Research Product Category for the research product called "Smart Portable CO Forecaster", Feb. 2005.
25. Anugerah Malam Sanggar Sanjung by USM Excellent in Research Product Category for the research product called "DataPap – An Intelligent Database System for Cervical Cancer", Feb. 2005.
26. Anugerah Malam Sanggar Sanjung by USM, Excellent in Research Product Category for the research product called "G2C - A Low Cost Pseudocolor Ultrasound System for Gynaecology Application", Feb. 2005.
27. Member of Science Committee for Engineering, Research and Development Committee University Sains Malaysia (1st Jan. 2000 – Dec. 2003)
28. Alternate Member of Innovation Committee, University Sains Malaysia (Feb. 2000 - May 2005)
29. Member of Advisory Committee for Engineering and Technology Research Platform of University Sains Malaysia (Feb. 2004 – May 2005)
30. Reviewer Panel for Excellent in Engineering Research Award by Yayasan Perak.
31. Expert Panel of Fundamental Research Grant for Engineering Field.
32. Chairman of Technical and Publication Committee for International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVISP '05.

TEACHING EXPERIENCE:

SUBJECTS LECTURED

Degree Courses:

Control System, Digital Control System, Control System Design, Introduction to Power Eng., Analogue Electronic I, Digital Electronic I, Introduction to Computer, Thinking Technique. Electronic Instrumentation, Signal and Systems.

MSc Courses:

Nonlinear Dynamical System, Adaptive Control System.

RECORD OF SUPERVISION OF HIGHER DEGREE STUDENTS:

<u>No.</u>	<u>Name of Student</u>	<u>Degree</u>	<u>Title</u>	<u>Status</u>
1	Zarita Zainuddin	PhD	Acceleration Strategies for Back Propagation Neural Network Learning Algorithm	Graduated (2000)
2	Nor Ashidi Mat Isa	PhD	Early Diagnostic System for Cervical Cancer Based on Neural Networks	Graduated (2003)
3	Harsa Amylia Mat Sakim	PhD	Application of Neural Network on Fine Needle Aspirates of Breast Lesions	Graduated (2004)
4	Saufiah bt. Abdul Rahim	MSc	Pruning Algorithm for Feedforward Neural Network	Graduated (2002)
5	Rosmiwati bt. Mohd Mokhtar	MSc	Adaptive Neuro-Fuzzy Modelling for Non-linear System	Graduated (2002)
6	Siti Noraini Sulaiman	MSc	Image Processing System for Breast Cancer Detection	Graduated (2002)
7	Mazlina Marnat	MSc	Real-time Intelligent Monitoring and Forecasting System for Carbon Monoxide Concentration Based on Neural Network	Graduated (2003)
8	Rosniwati Ghafar	MSc	Database System with Built-in Image Enhancement facilities for Cervical Cancer Cells	Graduated (2003)
9	Mohamad Khusairi Osman	MSc	3D Object Recognition Based on Multiple Views Technique and Neuro-Fuzzy System	Graduated (2004)
10	Nor Fadzilah Mokhtar [@]	MSc	Adaptive Controller Design Using Neural Network	Graduated (2004)
11	Tan Kuan Liung	MSc	Intelligent Rapid Prototyping Engine for Pattern Recognition	Graduated (2005)
12	Nafiza Saidin	MSc	A PC based Low Cost Pseudocolouring Ultrasound System for Gynaecological Application	Graduated (2005)
13	Siti Hajar bt. Hassan Basri [@]	MSc	Adaptive Neuro-controller Design for Nonlinear Time-Varying Systems	Graduated (2005)
14	Siat Kim Siong [@]	MSc	Pattern Recognition Using Various Neural Network Architectures	Graduated (2005)
15	Nurhani bt. Yusof [@]	MSc	Neuro-controller Design for Stepper Motor	Graduated (2005)
16	Usyarani a/p Raji	MSc	Portable On-Line Measuring, Monitoring and Forecasting System for Carbon Monoxide Concentration	Graduated (2005)
17	Usugasini a/p Subramaniam	MSc	Intelligent Screening System for Breast Cancer	Graduated (2006)
18	Syed Sahal Al-hadi Syed Nazli *	PhD	Development of Portable Intelligent ECG Diagnosis System	Graduated (2006)
19	Rizuan Mohd Nor*	MSc	Design of A Low Cost Diagnostic System for Cervical Cancer	Submitting (USM)

20	Nazahah Mustafa*	MSc	Feature Extraction of Pap Smear Images for Cervical Cancer Diagnosis System	Graduated (USM)
21	Shalihatun Azlin Aziz*	MSc	3D Ultrasound Image Reconstruction System for Breast Cancer	Submitting (USM)
22	Rozlaini bt Ghoni*	MSc	An Active Electrode for Active Bio-potential Recording From Small Localized Bio-Sources	Writing up (KUKTEM)
24	Zaleha Salleh	MSc	Design of an Artificial Intelligent Diagnostic System for Tuberculosis Infection	In Progress (KUKUM)
25	Ratina Jaafar	MSc	Design of an Embedded Portable Screening System for Heart Diseases	In Progress (KUKUM)

Note: * co-supervised

Part Time

@ MSc by Mixed Mode

POSTGRADUATE EXAMINERS:

External:

<u>No.</u>	<u>Name</u>	<u>Degree</u>	<u>Title</u>	<u>Faculty/School and University</u>
1	Mohd Shafiek bin Yaacob	PhD	Identification of Non-linear Dynamic Systems Using Fuzzy System with Constrained Membership Functions	Faculty of Mechanical Eng., UTM
2	Robiah bt. Ahmad	PhD	Identification of Discrete-Time Dynamic Systems Using Modified Genetic Algorithm	Faculty of Mechanical Eng., UTM
3	Fatimah bt. Ibrahim	PhD	Prognosis of Dengue Fever and Dengue Haemorrhagic Fever Using Bioelectrical Impedance	School of Electrical & Electronic Eng., UM
4	Omar Abdulmola Abusaeeda	MSc	Image Improvement Technique Combining Noise Reduction and Sharpening using Feedforward Neural Network	Department of Computer System and Communication Eng., UPM
5	Ahmad Shukri bin Fadzil Rahman	MSc	Intelligent Stepper Motor Controller	Department of Electrical & Electronic Eng., UiTM
6	Muhammad Ridwan Andi Purnomo	MSc	Development of Fuzzy Genetic Expert Systems for Multi Junctions Traffic Signal Control System	Faculty of Engineering, UKM
7	Arief Ruhullah bin A. Harris	MSc	Development of Intelligent Fitness Test and Athletic Training System	Faculty of Electrical Engineering, UTM

8	Boshara Merghani Arshain	MSc	Hybrid Region-based Image Compression Scheme for Mammograms and Ultrasound Images	Electrical and Electronic Engineering, UTP
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Internal:

<u>No.</u>	<u>Name</u>	<u>Degree</u>	<u>Title</u>	<u>School</u>
1	Loo Chu Kiong	PhD	Constructivism Modular Neural Networks for System Modelling and Control	Industrial Technology
2	Junaidah bt. Ariffin	PhD	Development of Sediment Transport Models for Rivers in Malaysia Using Regression Analysis and Artificial Neural Network	Civil Eng.
3	Azman bin Muhammad Yusof @ Kamarudin	MSc	Implementation Of A Cascadable MLP Neural Processor With Sliding Feeder Technique	Electrical & Electronic Eng.
4	Teuku Andika Rama Putra	MSc	Grinding Mill Modelling Based System Identification and Control System Design in Comminution Using Artificial Neural Networks	Material and Mineral Eng.
5	Zainal Abidin mat Amin	MSc	Analysis, Design and Implementation of a Cannon Control System	Electrical & Electronic Eng.
6	Tan Shing Shiang	MSc	Classification and Rule Extraction Using Artificial Neural Networks	Electrical & Electronic Eng.
7	Kuan Mei Ming	MSc	Development of Neural Network-Based Intelligent Systems for Medical Pattern Classification with Missing Features	Industrial Technology
8	Ng Lee Ping	MSc	Watermarking of Medical Images	Electrical & Electronic Eng.
9	Anas Mohammad Quteishat	MSc	Object Tracking System Using Visual Information	Electrical & Electronic Eng.
10	Shahrul Nizam bin Yaakob	MSc	Classification of Binary Insect Images using Fuzzy and Gaussian ARTMAP Neural Networks	School of Computer and Communication Eng., KUKUM.

REVIEWERS:

International Level:

1. Referee for a paper titled, "EEG Artifacts Detection Method Based on Stochastic Analysis", Journal of DIRASAT, The University of Jordan, Nov. 2004.

2. Referee for a paper titled, "Method of Automatic Selection of Encephalography", Journal of Computer Methods and Programs in Biomedicine, Elsevier, Nov. 2004.
3. Referee for a paper titled, "Automatic Artifacts Selection in Encephalography by Classification of Fractal Dimension Dynamics", Journal of DIRASAT, The University of Jordan, April 2005.

National Level:

1. Referee for a paper titled, "Effects of user selected conditions on modelling of dynamic systems using adaptive fuzzy model", Jurnal Teknologi, UTM, 2000.
2. Referee for a paper titled, "A Comparison of Defuzzification Schemes for Short Term Load Forecasting", IEM Perak Annual Magazine, July 2004.
3. Referee for a paper titled, "System Identification of Hammerstein Model Quarter Car Passive Suspension Systems Using Multilayered Perceptron Weighted Least Square Neural Network", Jurnal Teknologi, UTM, 2004.
4. Referee for a paper titled, "System Identification and Parameter Estimation of a Hot Air Blower System Using Classical Technique", Jurnal Teknologi, UTM, 2005.

University Level:

1. Member of Science Committee for Engineering, Research and Development Committee University Sains Malaysia (1st Jan. 2000 – Dec. 2003)
2. Reviewer Panel for Excellent in Engineering Research Award by Yayasan Perak.
3. Reviewer Panel of Fundamental Research Grant for Engineering Field.
4. Chief Editor of Technical Journal School of Electrical and Electronic Engineering, 2000/2001, School of Electrical and Electronic Engineering, USM, 85 pages.
5. Reviewer Panel of "Technical Journal", School of Electrical and Electronic Eng., USM, 1998.
6. Reviewer Panel of "Technical Journal", School of Electrical and Electronic Eng, USM, 1999.
7. Chairman of Reviewers "Technical Journal", School of Electrical and Electronic Eng, USM, 2000.

RESEARCH GRANTS:

Completed

1. Design and Development of Engineering Techniques for Low Cost X-Ray and Ultrasound Image Analysis, Long term IRPA grant, RM 83,000.00, Umi Kalthum Ngah, Mohd Yusoff Mashor and Harsa Amylia Mat Sakim, 24 months.
(Co-researcher)
2. Development of An Environmental Data Acquisition System for use in Intelligent Transport System (ITS), Long term IRPA grant, RM 218,000.00, Ahmad Farhan Sadullah, Mohd Yusoff Mashor, Azlina Harun and Abdul Rahman Saad, 24 months.
(Co-researcher)
3. Real Time Streamflow Forecasting For Low Flow And High Flow Using Neural Networks, Short term IRPA grant, RM 10,761.00, Mohd Yusoff Mashor and Rozi Abdullah, 12 months.
(Project Leader)
4. Real Time Breast Cancer Prediction Using Artificial Neural Networks, Short term IRPA grant,

- RM9,612.00 + RM2,350.00 (Vot 35000), Mohd Yusoff Mashor and Umi Kalthum Ngah, 12 months. (Project Leader)
5. Early Detection Of Cervical Cancer Using Neural Networks, USM grant, RM 12,400, Mohd Yusoff Mashor, Nor Hayati Othman and M. Madhavan, 12 months. (Project Leader)
 6. Development of an Intelligent Stereo Robotic Vision System Based on Neuro-Fuzzy System, USM grant, RM 15,000.00, Mohd Yusoff Mashor, Mohd Rizal Arshad and Suzuri Hitam, 12 months. (Project Leader)
 7. Database System for Pap Smear Slide Images of Cervical Cancer Cells, USM grant, RM 19,000.00, Nor Hayati Othman and Mohd Yusoff Mashor, 12 months. (Co-researcher)
 8. Design of a Low Cost Computer Based Colour Ultrasound System, USM Grant, RM 17,000.00, Umi Kalthum Ngah and Mohd Yusoff Mashor, 12 months. (Co-researcher)
 9. Design of A Low Cost Portable Diagnosis Kit for Cervical Cancer, USM grant, RM 17,000.00, Ahmad Nazri Ali and Mohd Yusoff Mashor, 12 months. (Co-researcher)
 10. Real Time Intelligent Monitoring and Forecasting System Based On Neural Network For Carbon Monoxide Level For Kuala Lumpur City, USM grant, RM 15,000.00, Mohd Yusoff Mashor, Abdul Rahman Saad and Ahmad Farhan Sadullah, 12 months. (Project Leader)
 11. Intelligent Classification System for Microcalcification of Breast Cancer, Short Term Grant UiTM Penang, Siti Noraini Sulaiman, Mohd Yusoff Mashor and Nor Ashidi Mat Isa, RM19,992.00, 12 months. (Co-researcher)
 12. Development of A Low Cost Rapid Diagnostic System for Cervical Cancer, IRPA PR RM342,000.00, Mohd Yusoff Mashor, Nor Hayati Othman, Umi Kalthum Ngah, Nor Ashidi Mat Isa and Nadzri Ali, 36 months. (Project Leader)
 13. A Portable Intelligent System for Measuring, Monitoring and Forecasting Carbon Monoxide Level, IRPA EA, RM 216,000.00, Mohd Yusoff Mashor, Abdul Rahman Saad, Ahmad Farhan Sadullah, Abdul Hamid Adom, Nadzri Ali and Lim Chee Ping, 36 months. (Project Leader)
 14. An Automated ECG System Embedded with Artificial Neural Network for Diagnosis of Heart-related Disorder, IRPA EA, RM 268,000.00, Mohd Rizal Arshad, Mohd Yusoff Mashor and Syed Sahal Al-hadi Syed Nazli, 36 months. (Co-researcher)
 15. The Design and Development of a Medical Image Diagnostic Analysis System, Incorporating Image Processing and Reconstruction Methods, IRPA EA, RM227,000.00, Umi Kalthum Ngah and Mohd Yusoff Mashor, 36 months. (Co-researcher)
 16. Adaptive Neural Controller, Abdul Hamid Adom, Mohd Yusoff Mashor and Nazri Ali, FRGS, RM 60,000.00, 24 months. (Co-researcher)
 17. Automated Identification of Tubercle Bacilli in Ziehl-Neelsen Smear, USM Grant, RM 19,426.00, Siti Suraiya Md Noor, Azian Harun, Habsah Hasan, Mohd Yusoff Mashor and Umi Kalthum Ngah, 18 months. (Co-researcher)

On-Going

1. Design of An Automated Intelligent Diagnostic System for Tuberculosis Infection, Cluster Grant KUKUM, RM 91,000.00, Mohd Yusoff Mashor, Shazmin Aniza Abdul Shukor, Norasmadi Abd Rahim, Siti Suraiya Md Noor, Azian Harun and Habsah Hasan, 12 bulan. (Project Leader)

2. KUKUM's Satellite Attitude Control System Design for Innosat, Geran dari ANGKASA melalui ATSB Sdn Bhd, RM 100,000.00, 12 bulan, Sazali Yaacob, Nagarajan, Mohd Yusoff Mashor, Abdul Hamid Adum, 12 bulan. (Co-researcher)
3. Design of an Embedded Portable Screening System for Heart Disorder, Short Term Grant KUKUM, RM19,620.00, Mohd Yusoff Mashor, Mohamad Hanif Abd Hamid, Abdul Rahman Saad and Mohd Ezane Aziz, 12 bulan. (Project Leader)
4. Design of a portable continuous blood monitoring kit with built-in low and high blood pressure early warnings, Short Term Grant KUKUM, RM20,000.00, Mohd Yusoff Mashor, Nashrul Fazli Bin Mohd Nasir, Muhajir Ab. Rahim and R. Badlishah Ahmad, 12 bulan. (Project Leader)
5. Automated screening of tubercle bacilli in Ziehl-Neelsen smear, Short Term Grant KUKUM, RM19,930.00, Shazmin Aniza Abdul Shukor, Mohd Yusoff Mashor, Norasmadi Abd Rahim and Siti Suraiya Md Noor, 12bulan. (Co-researcher)
6. Development of Drug Addict Screening System Based on Brain Wave, Short Term Grant KUKUM, RM20,000.00, Rizon Mohamed Juhari, Mohd Yusoff Mashor and R. Badlishah Ahmad, 12 bulan. (Co-researcher)
7. Multiple Steps Ahead Forecasting of Electricity Peak Load, Short Term Grant KUKUM, RM19,874.00, Mohamad Arinal Abdul Halim, Mohd Yusoff Mashor, Norasmadi Abd Rahim dan Noor Hasnizam Hanafi, 12 bulan. (Co-researcher)
8. Design of an Artificial Intelligent Diagnostic System for Tuberculosis Infection, Submitted to ScienceFund Grant, RM 155,000.00, Mohd Yusoff Mashor, Shazmin Aniza Abdul Shukor, Norasmadi Abd Rahim, Siti Suraiya Md Noor, Azian Harun and Habsah Hasan. (Project Leader)
9. Fundamental Study of Time-frequency Features and Extraction Algorithm of Heart Sound Signal for an Embedded Heart Disorder Portable Screening System, Submitted to FRGS Grant, RM113,693.04, Mohd Yusoff Mashor, Mohamad Hanif Abd Hamid, Abdul Rahman Saad, Mohd Ezane Aziz and Safawi bin Nawawi. (Project Leader)
10. Formulation of Image Enhancement and Features Extraction Algorithms for Automated Intelligent Diagnostic System Based on Ziehl-Neelsen Smear for Tuberculosis Infection, Submitted to FRGS Grant, RM160,508.00, Mohd Yusoff Mashor, Shazmin Aniza Abdul Shukor, Norasmadi Abd Rahim, Siti Suraiya Md Noor, Fauziah Mohamad Idris and Habsah Hasan. (Project Leader)

PUBLICATIONS:

Thesis

1. M.Y. Mashor, 1991, "Nonlinear Model Fitting: River Flow", M.Sc. *Dissertation*, University of Sheffield, United Kingdom.
2. M.Y. Mashor, 1995, "System Identification Using RBF Networks", PhD *Thesis*, University of Sheffield, United Kingdom.

Book Chapter

3. M.Y. Mashor, 1991, "Nonlinear Model Fitting: River Flow", M.Sc. *Dissertation*, University of Sheffield, United Kingdom.

4. M.Y. Mashor, 1995, "System Identification Using RBF Networks", PhD Thesis, University of Sheffield, United Kingdom.
5. Ramli, D. A., Kadmin, A. F., Mashor, M. Y. & Mat-Isa, N. A. Diagnosis of Cervical Cancer Using Hybrid Multilayered Perceptron (HMLP) Network in *Lecture Notes in Artificial Intelligence: Knowledge-Based Intelligent Information and Engineering Systems* (Edited by Mircea, G. N., Robert, J. H. & Lakhmi, C. J), pp. 591-598. Springer, Berlin, Germany, 2004 (ISBN: 3-540-23318-0).
6. Subramaniam, E., Mashor, M. Y., Mat-Isa, N. A. & Othman, N. H. "Performance Comparison For MLP Networks Using Various Back Propagation Algorithms For Breast Cancer Diagnosis". in *Lecture Notes in Artificial Intelligence: Knowledge-Based Intelligent Information and Engineering Systems* (Edited by Koshla, R., Howlett, R. J. & Lakhmi, C. J), Vol. (2). pp. 123-130. Springer, Berlin Heidelberg, New York, 2005 (ISBN: 3-540-28895-3)).
7. Mazlina Mamat, Mohd Yusoff Mashor, Abdul Rahman Saad and Ahmad Farhan Sadullah, "Carbon Monoxide Level Forecasting Using RBF Network", Edited by Sazali Yaacob, Nagarajan R., Ali Chekima and Sainarayanan G., Universiti Malaysia Sabah, 2004, (ISBN 983-2369-14-2)).
8. Mohd Yusoff Mashor and Rozi Abdullah, "Short-Term Streamflow Forecasting Using Neural Network Models", published by UUM Publisher, August 2004.
9. M. Y. Mashor, M. K. Osman, R. E. Sarmin, M. R. Arshad, "3D Object Recognition Using Multiple Views Technique", published by UUM Publisher, August 2004.
10. Nor Ashidi Mat Isa, Mohd. Yusoff Mashor, Nor Hayati Othman, Kamal Zuhairi Zamli, "Improvement of Cervical Pre-Cancerous Screening Performance Using Hierarchical Version of Conventional Neural Networks", published by UUM Publisher, August 2004.

International Journal

11. Tabrizi M.H.N.M., Said S., Badr A., Mashor M.Y. and Billings S.A., 1998, "Nonlinear modelling and prediction of a river flow system", *Journal of American Water Resources Association*, Vol. 34, pp. 1333-1339.
12. Kong C.Y., Hadzer C.M. and Mashor M.Y., 1998, "Radar Tracking System Using Neural Networks", *International Journal of the Computer, the Internet and Management*, Vol. 6, No.2, pp. 1-7.
13. Mashor M.Y., 1998, "Improving the Performance of *k*-means Clustering Algorithm to Position the Centres of RBF Network", *International Journal of the Computer, the Internet and Management*, Vol. 6, No.2, pp 23-34.
14. Mashor M.Y. and Hamid H. A., 1998, "Structure Detection of Hybrid-RBF Network using Orthogonal Least Squares Algorithm", *International Journal of the Computer, the Internet and Management*, Vol. 6 No. 3, pp. 1-12.
15. Mashor M.Y., 1998, "Supervised Hybrid Training Algorithm for RBF Network", *International Journal of the Computer, the Internet and Management*, Vol. 6 No. 3, pp. 13-27.
16. Mashor M.Y., 1999, "Some Properties of RBF Network with Applications to System identification", *International Journal of Computer and Engineering Management*, Vol. 7 No. 1, pp. 34-56.
17. Mashor M.Y., 1999, "Model Validity Tests for RBF Network", *International Journal of the Computer, the Internet and Management*, Vol. 7 No. 2, pp 38-52.
18. Mashor M.Y., 2000, "Modification of the RBF Network Architecture", *ASEAN Journal on Science & Technology for Development*, Vol. 17, No. 1, pp. 87-108.
19. Mashor M.Y., 2000, "Hybrid Multilayered Perceptron Networks", *International Journal of System*

and Science, Vol. 31, No.6, pp. 171-185.

20. Mashor M.Y., 2000, "Structure Detection of RBF Network Using DRR Algorithm", *International Journal of the Computer, the Internet and Management*, Vol.8, No.1, pp 48-57.
21. Mashor M.Y., 2000, "Hybrid Training Algorithm for RBF Network", *International Journal of the Computer, the Internet and Management*, Vol. 8, No.2, pp.50-65.
22. Mashor M.Y., 2000, "Performance Comparison Between Back Propagation, RPE and MRPE algorithms", *International Journal of the Computer, the Internet and Management*, Vol.8, No.3, pp 65-78.
23. Mashor M.Y., 2001, "Adaptive Fuzzy c-means Clustering Algorithm for RBF Networks", *International Journal of System and Science*, Vol. 32, No.1, pp 53-63.
24. Mashor M.Y., 2001, "Recognition Of Noisy Numerals Using Neural Network", *International Journal of the Computer, the Internet and Management*, Vol.9, No. 3, pp.45-52.
25. Mashor M.Y., 2002, "On-line Short Term Streamflow Forecasting Using Neural Network", *International Association of Hydrological Sciences (IAHS) Conference publication series (red books)*, Edited by Henny van Lanen, pp. 13.
26. Mat-Isa, N. A., Mashor, M. Y. & Othman, N. H., 2003, "Classification of Cervical Cancer Cells Using HMLP Network with Confidence Percentage and Confidence Level Analysis". *International Journal of The Computer, The Internet and Management*. Vol. 11. No. 1. pp. 17-29.
27. Mashor M.Y., 2003, "Modified Recursive Prediction Error Algorithm For Training Layered Neural Networks", *International Journal of the Computer, the Internet and Management*, Vol. 11 No. 2, pp 24 – 36.
28. M.K. Osman, M.Y. Mashor & M. R. Arshad, 2004, "3D Object Recognition Using Multiple Views, Affine Moment Invariants and Multilayered Perceptron Network", *WSEAS Transaction on Systems*, Vol. 5, No. 3, 2004, pp. 3065-3069.
29. Raji U., Mashor M.Y., Ali N.A., Adom A.H. and Sadullah A.F., 2005, "Performance Comparison between HMLP, MLP and Recurrent Networks with Application to Carbon Monoxide Concentration Forecasting", *WSEAS Transaction on Systems*.
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 124. Nafiza Saidin, Umi Kalthum Ngah and Mohd Yusoff Mashor, 2003, "Low Cost PC Based Colour Ultrasound System, *Malaysian Science and Technology Congress 2003 (MSTC 2003)*, Kuala Lumpur, 23-25 Sept., pp 5.
 125. Ghafar, R., Mashor, M. Y., Othman, N. H. & Mat-Isa, N. A., 2003, "Local Database System for Pap Smears". *Proceedings of Conference in Conjunction with the Public Institutions of Higher Learning (IPTA) Research and Development Exposition 2003*. Vol. 5. pp. 389-392. PWTC, Kuala Lumpur. 9 – 12 October, pp 4.
 126. Mohd Yusoff Mashor, Sariah Rajuli, Rosniwati Ghafar, Nor Ashidi Mat Isa, Nor Hayati Othman, M. Madhavan, 2004, "A Diagnostic Tool for Cervical Cancer", *National Diagnostic Conference*, Kota Bharu, 4-5 Oct., pp4.

Other Publication

127. Mohd Yusoff Mashor, 1997, Ensiklopedia Sains and Teknologi, article on "Rangkaian Neural (Neural network)", Dewan Bahasa dan Pustaka, 10 pages.
128. Mohd Yusoff Mashor, "Pengenalan Sistem", Short Course Module, 20-22 Nov., 1997, 32 pages.
129. Mohd Yusoff Mashor, Nor Hayati Othman and Nor Ashidi Mat Isa "NeuralPap – the artificial pathologist", Invited paper at 1st National Meeting of Cancer of Cervix, Kota Bharu, 3-4 Oct. 2004.
130. Mohd Yusoff Mashor, Rosniwati Ghafar, Nor Hayati Othman, M Madhavan, Nor Ashidi Mat Isa and Sariah Rajuli, "DataPap – An Intelligent Database System for Cervical Cancer", Invited paper at 1st National Meeting of Cancer of Cervix, Kota Bharu, 3-4 Oct. 2004.

RECORD OF UNIVERSITY SERVICES:

Research Activities:

International Level

1. Member of Organizing Committee of International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPLA '96 (1996)

2. Member of Organizing Committee of International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPIA '99 (1999)
3. Chairman-Programme Committee of International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPIA '99 (1999)
4. Session Chairman of International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPIA '99 (1999)
5. Session Chairman of International Conference on Robotics, Vision, Information and Signal Processing (ROVISP2003), Penang, Malaysia. 22-24 January, 2003.
6. Represent USM at International Exhibition Ideas-Inventions-New Products (IENA-2003), Nuremberg, Germany exhibiting a research product called "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer".
7. Chairman of Technical and Publication Committee for International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVISP '05.
8. Session Chairman of the IEEE Conference on Cybernetics and Intelligent System - CIS 2004, Singapore for session WP6, 2-4 Dec. 2004.
9. Session Chairman of the IEEE Conference on Cybernetics and Intelligent System - CIS 2004, Singapore for session TM7, 2-4 Dec. 2004.

National Level

10. Referee for a paper titled, "Effects of user selected conditions on modeling of dynamic systems using adaptive fuzzy model", Jurnal Teknologi, UTM, 2000.
11. Referee for a paper titled, "A Comparison of Defuzzification Schemes for Short Term Load Forecasting", IEM Perak Annual Magazine, July 2004.
12. Referee for a paper titled, "System Identification of Hmmerstein Model Quarter Car Passive Suspension Systems Using Multileayered Perceptron Weighted Least Square Neural Network", Jurnal Teknologi, UTM, 2004.
13. Represent USM at ITEX-2003 Exhibition at Sunway Pyramid Exhibition Centre, exhibiting a research product called "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer", 16th to 18th May 2003.
14. Represent USM at MOSTE-2003 Exhibition at PWTC, exhibiting a research product called "AiPap – An Intelligent Diagnosis System for Cervical Cancer", 7th to 9th August 2003.
15. Represent USM at IPTA-2003 Exhibition at PWTC, exhibiting a research product called "DataPap – An Intelligent Database System for Cervical Cancer", 2-12 Oct. 2003.
16. Represent USM at International Invention, Innovation, Industrial Design (ITEX-2004) Exhibition, at Mid Valley Exhibition Centre, exhibiting a research product called "Smart Portable CO Forecaster", 20-22 May 2004.
17. Represent USM at EXPO Science & Technology 2004 (MOSTI-2004), at Putra World Trade Centre, exhibiting a research product called "DataPap – An Intelligent Database System for Cervical Cancer", 27-29 August 2004.
18. Represent USM at EXPO Science & Technology 2004 (MOSTI-2004), at Putra World Trade Centre, exhibiting a research product called "A Low Cost Pseudocolor Ultrasound System for Gynaecology Application", 27-29 August 2004.

University Level

19. Member of Science Committee for Engineering, Research and Development Committee University Sains Malaysia (1st Jan. 2000 – Dec. 2003)
20. Alternate Member of Innovation Committee, University Sains Malaysia (Feb. 2000 - May 2005)
21. Member of Advisory Committee for Engineering and Technology Research Platform of University Sains Malaysia (Feb. 2004 – May 2005)
22. Reviewer Panel for Excellent in Engineering Research Award by Yayasan Perak.
23. Reviewer Panel of Fundamental Research Grant for Engineering Field.
24. Member of Cervical Cancer Research Group, (2003 – present).
25. Member of Brain Mapping Cluster, (August 2004 – present).

School Level

26. Member of Research and Post Graduate Committee School of Electrical and Electronic (Jan. 1997 - May 2005)
27. Member of Academic Editorial Committee (Jan. 1997 - 2000)
28. Founder and Co-ordinator of CELIS (Control and ELectronic Intelligent Systems) Research Lab. (Since 1997 - May 2005).
29. Chief Editor of Technical Journal School of Electrical and Electronic Engineering, 2000/2001, School of Electrical and Electronic Engineering, USM, 85 pages.
30. Reviewer Panel of "Technical Journal", School of Electrical and Electronic Eng., USM, 1998.
31. Reviewer Panel of "Technical Journal", School of Electrical and Electronic Eng, USM, 1999.
32. Chairman of Reviewers "Technical Journal", School of Electrical and Electronic Eng, USM, 2000.
33. Member of Medical Imaging Research Group, (2000 – May 2005).

Teaching Activities:

National Level

1. Member of Mathematics Curriculum Committee Kementrian Pendidikan Malaysia for Secondary School (1997/1998)

University Level

2. Member of Engineering Coordination Committee (Jan. 1997 - April 1998)
3. Member of Curriculum Committee for Aerospace Engineering Programme (1997 - 1998)

School Level

4. Member of School of Electrical and Electronic Eng. Board (Jan. 1996 - May 2005)
5. Member of School of Electrical and Electronic Eng. Examination Board (Jan. 1996 - May 2005)

6. School Academic Advisor (1996 - May 2005)
7. School Representative to Library (June 1996 - Sept. 1999)
8. Programme Chairman of Power Engineering (Jan. 1997 - April 1998)
9. Member of Dean-EXCO (Jan. 1997 - May 2005)
10. Member of Lecturer/Student Committee (Jan. 1997 - 2000)
11. School Representative to Aerospace Engineering Programme (1997 - 1998)
12. Co-ordinator for Final Year Project (1997 -present)
13. Chairman of 'A' Committee for Final Year Project (1997 – May 2005)
14. Coordinator for Practical Training 2 for Power Eng., 1997/98.
15. Coordinator for Practical Training 1, 1997/98 & 1998/99.
16. Member of Terminology Committee (Jan. 1998 - May 2005)
17. Programme Chairman of Communication and Microelectronic (April 1998 – Nov. 1999)
18. Member of Curriculum Committee School of Electrical and Electronic Eng. (April 1998 - May 2005)
19. Deputy Chairman of Committee Q School of Electrical and Electronic Eng. (July 1998 – May 2000)
20. Member of Private College Programme Committee, (August 1999 – May 2005).
21. Member of Time Table Committee School of Electrical and Electronic Eng. (1998/1999)
22. Chairman of Time Table Committee School of Electrical and Electronic Eng. (1999 - 2003)
23. Member of Student Performance Improvement Programme Committee. (May 2000 - 2002).
24. Member for PTJ Associate Professor Promotion Committee. (2003/2004 – May 2005)
25. Member for PTJ Senior Lecturer Promotion Committee. (2004/2005 – May 2005).

RECORD OF PUBLIC SERVICES:

International Level

1. Member of the Organizing Committee for International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPIA '96 as a Organizing Committee, 28-30 Nov., 1996.
2. Session Chairman of International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPIA '99 (1999).
3. Session Chairman of International Conference on Artificial Intelligence In Engineering And Technology ICAIET-2002, Kota Kinabalu, Malaysia.
4. Session Chairman of International Conference on Robotics, Vision, Information and Signal Processing (ROVISP2003, Penang, Malaysia. 22-24 January, 2003.
5. Participant at International Exhibition Ideas-Inventions, -New Products (IENA-2003), Nurenberg, Germany exhibiting a research product called “NeuralPap – An Intelligent Diagnosis System for Cervical Cancer”, 30th Oct. to 2nd Nov. 2003.
6. Session Chairman of the IEEE Conference on Cybernetics and Intelligent System - CIS 2004,

Singapore for session WP6, 2-4 Dec. 2004.

7. Session Chairman of the IEEE Conference on Cybernetics and Intelligent System - CIS 2004, Singapore for session TM7, 2-4 Dec. 2004.

National Level

8. Short course on "System Identification", as Coordinator and Paper Presenter, 20 - 23 Nov. 1997.
9. Short course on "Aerospace Engineering", as Treasurer, Mac 1997.
10. Radio 3 Ipoh, Programme for Distance Education "Rangkaian Neural", 25 Mei 1997.
11. Ensiklopedia Sains dan Teknologi, article on "Rangkaian Neural", 1997.
12. Panel Member of "Mesyuarat Kajian Semula Kurikulum Matematik (Mathematic Curriculum Reviving Meeting)", Malaysian Education Ministry, 10-12 Jun 1997.
13. Participant at International Invention, Innovation, Industrial Design (ITEX-2003) Exhibition, at Sunway Pyramid Exhibition Centre, exhibiting a research product called "NeuralPap – An Intelligent Diagnosis System for Cervical Cancer", 16 - 18 May 2003.
14. Participant at EXPO Science & Technology 2003 (MOSTE-2003) at PWTC, exhibiting a research product called "AiPap – An Intelligent Diagnosis System for Cervical Cancer", 7 - 9 August 2003.
15. Participant at IPTA-2003 Exhibition at PWTC, exhibiting a research product called "DataPap – An Intelligent Database System for Cervical Cancer", 2-12 Oct. 2003.
16. Participant at International Invention, Innovation, Industrial Design (ITEX-2004) Exhibition, at Mid Valley Exhibition Centre, exhibiting a research product called "Smart Portable CO Forecaster", 20-22 May 2004.
17. Participant at EXPO Science & Technology 2004 (MOSTI-2004), at Putra World Trade Centre, exhibiting a research product called "DataPap – An Intelligent Database System for Cervical Cancer", 27-29 August 2004.
18. Participant at EXPO Science & Technology 2004 (MOSTI-2004), at Putra World Trade Centre, exhibiting a research product called "A Low Cost Pseudocolor Ultrasound System for Gynaecology Application", 27-29 August 2004.
19. Invited Talk on "Neural Network and Its Applications", for undergraduate students at Institute Technology Tinggi Kulim (ITTK), Kulim, Kedah, 23 Jun 2002.
20. Invited Talk on "How to Supervised Final Year Project", for UiTM Lecturers at UiTM Permatang Pauh, Pulau Pinang, 26 March 2003.
21. Invited Talk on "My Experience as a Scientist and My Research Contribution to the Country", for SPM students under the program of 'Bridging the Gap Between Scientist and Teachers & Students', organised by Association for Science & Mathematics Education Penang –ASMEP dan Jabatan Pelajaran Pulau Pinang, Dewan SEAMEO-RECSAM, Maktab Perguruan Pulau Pinang, 6 May 2005.

University/ School Level

22. Talk on "Learning and Revision Techniques" for *minggu suaikenal* USM KCP 1997/98.
23. Talk on "Electrical and Electronic Engineering", for visiting students from private college in

Ipoh, June 1999.

24. Member of Organizing Committee for International Conference on Robotics, Vision and Parallel Processing for Industrial Automation - ROVPIA '99 (1999)
25. Talk on "Membina peribadi berjaya", Program Peningkatan Prestasi Pelajar, USM KCP, 7/7/2000.
26. Member of Organizing Committee for "Kursus peningkatan prestasi pelajar bersama BTN", Akademi Kepimpinan dan Wawasan, Segari, 17-19/11/2000.

RECORDS OF CONSULTANCY SERVICES:

1. Development of Naval Defense System, Telecom Malaysia, RM 250,000, Prof. Madya Dr Ali Yeon Mohd Shakaf, Prof. Syed Idris Syed Hassan, Prof. Madya Che Mat Hadzer Mahmud, Dr Mohd Noh Karsiti, Dr Mohd Yusoff Mashor and En. Abdul Rahman Saad, Jun 1998 – May 2000.
2. Short Course on "System Identification", for Telekom Engineers, 20-23 Nov. 1997.
3. Preparing a proposal report for setting up School of Aerospace Eng., at USM, July 1996.
4. Developing the Syllabus for School of Aerospace Eng., Jan 1997 – Dis. 1998.
5. Preparing Laboratory Manual of "Basic Circuit Lab." for University Technology Petronas, Oct. – Dis. 1998.
6. Preparing the Syllabus for Private College Diploma Programme, August 1999 – Jun 2000.
7. Preparing Instruction manual of "Control System" subject for Private College Diploma Programme, August 2000.
8. Preparing Instruction manual of "Sensors and Instrumentations" subject for Private College Diploma Programme, August 2000.
9. Design Specification and Procurement of Engineering Laboratory Equipments for University Technology Petronas, Jan.1999 – July 2000.
10. Short Course on "Nonlinear Dynamical Systems", for Agilent HP Engineers, 2003.
11. Short Course on "Adaptive Control Systems", for Agilent HP Engineers, 2003.

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