



CURRICULUM VITAE



Dr. Shaiful Jahari Hashim,

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Universiti Putra Malaysia,
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Education

1. Ph.D. Electrical and Electronics, 2011, Cardiff University, UK.
2. M.Sc. Electrical, Electronics and Systems Engineering, 2004, Universiti Kebangsaan Malaysia.
3. B. Eng. Electronics and Communication Engineering, 1998, University of Birmingham, UK.

Areas of Interest

1. RF/Microwave/Wireless Measurement and Instrumentation.
2. Computer and Network Security.
3. Embedded Systems and Internet of Things (IoT).
4. Cloud Computing and Engineering.

Professional Qualification/ Membership/ Affiliation

1. Member, International Association of Engineers (IAE)
2. Member of ICT Committee, Board of Engineers Malaysia (BEM)
3. Associate Member, Malaysian Technical Standard Forum Berhad (MTSFB)



Appointments		
Position		Duration
1. Member, Technical Program Committee, Malaysian International Conference and Communication, (MICC)		2014
2. External collaborator in radio astronomy project between Malaysia, China (Shanghai Astronomical Observatory) and Australia (CSIRO)		2014
3. Member, CCSE Under Graduate Curriculum Review Committee (2016-2020)		2014 - 2015
4. Member, ICT Committee Board of Engineer Malaysia		2013 - present
5. Committee Member, Direct Negotiation Procurement Committee, Faculty of Engineering, Universiti Putra Malaysia (UPM)		2013 - present
6. Chairman, Multimedia and ICT Committee, Faculty of Engineering, UPM		2013 - present
7. Member, UPM ICT Executive Committee		2013 - present
8. Member, cLINK Program Executive Committee, ERASMUS MUNDUS		2013 - present
9. Head, Application Unit, Research Center for Wireless Network and Photonics (WiPNET)		2013 - 2014
10. Member, Organizing Committee, "Advancing Partnership in ICT In Conjunction with United State of America (USA) ICT Trade Mission to Malaysia"		2013
11. Chairman, National Workshop on Graduate Journal Writing, IEEE Consumer Electronics Society, Malaysia Chapter		2013
12. Visiting Lecturer, KazNAU University, Kazakhstan		2013
13. Subject Matter Expert Panel for Telecommunications, MIGHT-METEOR Sdn. Bhd.		2013
14. Panel Judge, Creativity and Innovation Competition, Manpower Department, Ministry of Human Resource, Malaysia		2013
15. Mentor, English Immersion Program, Faculty of Engineering, Universiti Putra Malaysia (UPM)		2012 - 2013
16. Viva voce session moderator, Universiti Tenaga Nasional (UNITEN)		2012
17. Associate Members, Malaysian Technical Standards Forum Bhd (MTSFB)		2012 - present
18. Senior Lecturer, Department of Computer and Communication Systems Engineering (CCSE), Faculty of Engineering, Universiti Putra Malaysia (UPM)		2012 - present
19. Advisor, Diploma of Computer Science, UNITI College, Malaysia		2012 - present
20. Member, Master Without Thesis Proposal Committee for MSc (Embedded Systems), CCSE Department, Faculty of Engineering,		2011 - present



- Universiti Putra Malaysia (UPM)
21. Course Coordinator, Diploma (Multimedia Engineering Technology), UNITI College 2011 - present
 22. Coordinator, Industrial Networks and Community, CCSE Department, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2011 - 2013
 23. Publicity Chair, Asia Pacific Conference on Communication (APCC 2011) 2011
 24. English Language Translator for World Islamic Youth Conference, Universiti Sains Islam Malaysia (USIM) 2011
 25. Organizer, Professor's Open Source Summer Experience (POSSE) Malaysia 2011
 26. Member, Faculty of Engineering Technical Committee for Tender and Quotation, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2010 - present
 27. Advisor, CCSE Student Club, CCSE Department, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2010 – 2011
 28. Coordinator, Academic and Student Affair, CCSE Department, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2010 – 2011
 29. Visiting Researcher, Centre for High Frequency Electronic (CHFE), Cardiff School of Engineering, Cardiff University 2010
 30. Member, CCSE Under Graduate Curriculum Review Committee (2011-2015), Universiti Putra Malaysia (UPM) 2009 . 2010
 31. Member, Diploma (Multimedia Engineering Technology) Curriculum Review Committee (2011 – 2015), UNITI College 2009 . 2010
 32. Coordinator, Computer Systems Laboratory, CCSE Department, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2009 - 2010
 33. Expert panel, Wireless Sensor Network Research, Ministry of Water, Energy and Communication 2009
 34. Laboratory Teaching Assistant, Electronic Design Laboratory, Electrical and Electronic Department, Cardiff School of Engineering, Cardiff University 2006 - 2008
 35. Member, CCSE Under Graduate Curriculum Review Committee (2006-2010), Universiti Putra Malaysia (UPM) 2004 . 2005
 36. Project Manager, WebED E-Learning Software Development, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2005
 37. Research Associate, Multimedia and Software Institute, Universiti Putra Malaysia (UPM) 2005
 38. Lecturer, Department of Computer and Communication Systems Engineering (CCSE), Faculty of Engineering, Universiti Putra Malaysia (UPM) 2003 – 2012



39. Coordinator, Technicians Training, CCSE Department, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2004-2005
40. Speaker, Top Flyers Program, Faculty of Engineering, Universiti Putra Malaysia (UPM) 2004 – 2005
41. Tutor, Department of Computer and Communication Systems Engineering (CCSE), Faculty of Engineering, Universiti Putra Malaysia (UPM) 2000 – 2003
42. Research Assistant, Department of Electrical and Electronic Engineering, Faculty of Engineering, Universiti Kebangsaan Malaysia (UKM) 1999 – 2001



Publications

Journals

1. N. Memari, K. Samsudin, **S. J. Hashim**, Design of a Virtual Hybrid HoneyNet Based on LXC Virtualisation for Enhanced Network Security, Vol. 7, No. 2, 2014
2. M. Q. Abdulhasan, M. I. Salman, C. K. Ng, N.K. Nordin, **S.J. Hashim**, F. Hashim, Review of Channel Quality Indicator Estimation Schemes for Multi-User MIMO in 3GPP LTE/LTE-A Systems, KSII Transactions On Internet and Information Systems, Vol. 8, No. 6, 2014
3. W. N. Flayyih, F. Rokhani, K. Samsudin, **S. J. Hashim**, Y. Ismail. Crosstalk-Aware Multiple Error Detection Scheme based on 2-D Parities for Efficient Network on Chip, IEEE Transactions on Circuit and Systems I, 2014
4. H. Rasheed, **S.J, Hashim**, A. Sali. Fast and Secure handover Authentication Scheme in Mobile Wimax, Journal of Theoretical and Applied Information Technology, 2014
5. O. Barakat, **S. J. Hashim**, A. R. Ramli, K. Samsudin, R. S. A. R. Abdullah, F. Hashim, M. A. Rahman. Malware Analysis Performance Enhancement using Cloud Computing, Journal of Computer Virology and Hacking Techniques, , 2014
6. H. Kareem, **S,J, Hashim**, A. Sali, S. Subramaniam. Energy Efficient Two Stage Chain Routing Protocol (TSCP) For Wireless Sensor Networks, Journal of Theoretical and Applied Information Technology, , 2014
7. A. Myinmi, S. A. R. Al-Haddad, A. R. Ramli, **S.J. Hashim**, R. Abdullah. Review on Multi-Agent System Collaboration in Learning Management System Domain, Journal of Computer Science, , 2014
8. F. A. Ahmad, A. R. Ramli, K. Samsudin, **S.J. Hashim**. Optimization of Power Utilization in Multi-Mobile Robot Foraging Behavior Inspired by Honeybees System, The Scientific World Journal, 2014
9. H. Kareem, **S,J, Hashim**, A. Sali, S. Subramaniam. A Survey of State of the Art: Hierarchical Routing Algorithms For Wireless Sensor Networks, Journal of Theoretical and Applied Information Technology, 2014
10. A. I. Khmag, A. R. Ramli, S. A. R. Al-Haddad, **S.J. Hashim**. Additive and Multiplicative Noise Removal Based on Adaptive Wavelet Transformation Using Cycle Spinning, American Journal of Applied Sciences, 2014
11. T. J. Yew, K. Samsudin, N. I. Udzir, **S.J. Hashim**. Rootkit Guard (RG) – An Architecture for Rootkit Resistant File-System Implementation Based on TPM, Pertanika Journal Science and Technology, 2013
12. O. Barakat, **S. J. Hashim**, A. R. Ramli, K. Samsudin, R. S. A. R. Abdullah, F. Hashim, I. A. Al-Batah, M. M. Al-Habshi. SCARECROW: Scalable Malware Reporting, Detection and Analysis, Journal of Convergence Information Technology, 2013
13. A. I. Khmag, A. R. Ramli, S. A. R. Al-Haddad, **S.J. Hashim**. A Detailed Study on Image De-noising Algorithms by Using the Discrete Wavelet Transformation, International Journal on Computer Science and Technology, 2014
14. A. Myinmi, S. A. R. Al-Haddad, A. R. Ramli, **S.J. Hashim**, R. Abdullah. Adaptive Design Model on Heterogeneous Learning Management System (LMS) by Utilizing Multi-Agent System (MAS),



International Journal of Computer Science and Electronics Engineering, 2013

15. A. I. Khmag, A. R. Ramli, S. A. R. Al-Haddad, **S.J. Hashim**. Review of Image De-noising Algorithms Based on The Wavelet Transformation, International Journal of Advanced Trends in Computer Science and Engineering, 2013
16. **S.J. Hashim**, M. Akmal, J. Lees, J. Benedikt and P.J. Tasker. Investigation of RF In-Band Impedance Variations on Power Transistor Dynamic Transfer Characteristics, Journal of Japan Society of Applied Electromagnetics and Mechanics, 2011
17. A. Almohair, A. R. Ramli, A.M. Elsadig and **S. J. Hashim**. Skin Detection in Luminance Images using Threshold Technique, International Journal of The Computer, Internet and Management, 2007

Conference Proceedings

1. M. Kazemian, P. Varahram, **S. J. Hashim**, B. M. Ali, S. Mohammady, N. Sulaiman. Peak-to-Average Power Ratio Reduction Based on Cross- Correlation in OFDM Systems, 16th International Conference on Advanced Communication Technology (ICACT), 2014
2. K. A. Alezabi, F. Hashim, **S. J. Hashim**, B. M. Ali. A New Tunneled EAP based Authentication Method for WiMAX Networks, IEEE Region Ten Symposium (TENSYP), 2014
3. N. Memari, **S. J. Hashim**, K. Samsudin, Towards Virtual HoneyNet Based on LXC Virtualization, IEEE Region Ten Symposium (TENSYP), 2014
4. W. N. Ngah, S. B. M. Anas, M. F. Abas **S.J. Hashim**, P. Varahram. Companding Transform for Peak to Average Power Ratio Reduction in Coherent Optical Orthogonal Frequency Division Multiplexing, IEEE Region Ten Symposium (TENSYP), 2014
5. M. Qasim, N.K. Nordin, **S.J. Hashim**, F. Hashim. A Threshold Feedback Compression Scheme of Channel Quality Indicator (CQI) in LTE Systems, IEEE Student Conference on Research and Development (SCORED), 2013
6. F. M. Jumaah, **S.J. Hashim**, R.M. Sidek, F. Z. Rokhani. GPS Power Management Controller Utilizing Clock Gating Technique, 4th Annual International Conference on Energy Aware Computing Systems and Applications (ICEAC), 2013
7. W.N. Flayyih, K. Samsudin, **S.J. Hashim**. Improved Undetected Error Probability Model for JTEC and JTEC-SQED Coding Schemes, Proc. of International Conference on Circuits and Systems, ICCAS, 2013
8. K. A. Alezabi, F. Hashim, **S. J. Hashim**, B. M. Ali. An Efficient Authentication and Key Agreement Protocol for 4G (LTE) Networks, 11th IEEE Malaysia International Conference on Communication (MICC), 2013
9. A. I. Khmag, A. R. Ramli, S. A. R. Al-Haddad, **S.J. Hashim**. Natural Image De-noising Based On Non-Linear Threshold Filtering In Multi-wavelet Domain, Image Processing, Image Analysis and Real-Time Imaging (IPIARTI), 2013
10. A. I. Khmag, A. R. Ramli, S. A. R. Al-Haddad, **S.J. Hashim**. Image De-noising Algorithms Based on the Wavelet Transformation, Review, 3rd International Visual Informatics Conference 2013 (IVIC 2013)



11. A. I. Khmag, A. R. Ramli, S. A. R. Al-Haddad, **S.J. Hashim**. Review of Image De-noising Algorithms based on the Wavelet Transformation, 2nd International Conference on Advanced Computing, Engineering & Technology (ICACET), 2013
12. S. Nehzati, S. M. S. Ahmad, W. A. W. Adnan, **S.J. Hashim**. Steganography in Web Pages using CSS-Colours, International Conference on Intelligence Information Processing (ICIPT), 2013
13. W. A. W. Adnan, W.H Yap, **S.J. Hashim**, S. M. S. Ahmad, M. Hanafi. Road Condition Reporting : Crowd Sourcing on Android Smart Phone, International Conference on Inteligence Information Processing (ICIPT), 2013
14. F. A. Ahmad, A. R. Ramli, K. Samsudin, **S.J. Hashim**. Energy Management in Mobile Robotics System based on Biologically Inspired Honeybees Behavior, IEEE International Conference on Computer Applications and Industrial Electronics (ICCAIE), 2011
15. F. Arvin, **S.J. Hashim**, R. Abdullah, A. Ali, F. Rasid, A. Sali, A. Ismail, F. Hashim. Effect of Emission from Different UWB Short-Range Communication Devices, Asia Pacific Conference on Communication (APCC), 2011
16. **S.J. Hashim**, M. S. Hashmi, J. Benedikt, P.J. Tasker. Effect of Impedance Variation around the Fundamentals on PA Distortions Characteristics under Wideband Multi-Tone Stimulus, Asia Pacific Conference on Circuit and System (APCCAS), 2010
17. **S.J. Hashim**, et. al. A New Backhaul Architecture For Fast And Seamless Mobile Wimax Handoff Utilizing Ethernet Over WDM, World Engineering Congress (WEC), 2010
18. **S.J. Hashim**, et. al. A New Fast Handoff Mechanism for Mobile Wimax, International Symposium on Broadband Communication (ISBC 2010)
19. M. S. Hashmi, **S. J. Hashim**, S. Woodington, T. Williams, J. Benedikt, P. J. Tasker. Active Envelope Load-Pull System Suitable for High Modulation Rate Multi-tone Applications, Integrated Nonlinear Microwave and Millimetre-wave Circuits (INMMiC), 2008
20. **S. J. Hashim**, M. S. Hashmi, T. Williams, S. Woodington, J. Benedikt, P. J. Task. Active Envelope Load-Pull for Wideband Multi-tone Stimulus Incorporating Delay Compensation, 38th European Microwave Conference (EuMC), 2008
21. M. S. Hashmi, **S. J. Hashim**, T. Williams, J. Benedikt, P. J. Tasker. A Broadband Control Electronics for Envelope Load Pull System, International Symposium on Signal, Systems and Electronics (ISSSE), 2007
22. **S.J. Hashim**, M. Hashmi, T. Williams, J. Benedikt, P. J. Tasker. FPGA-Based Digital RF Control for Active Envelope Load-Pull System, IET Postgraduate Workshop on Microelectronics and Embedded Systems 2006
23. A.I. Khmag, E.A. Babakar, A. Ramli, **S. J. Hashim**. Development of Cryptography System for Internet and Email Security, Brunei International Conference on Engineering and Technology (BICET), 2005
24. A.I. Khmag, E.A. Babakar, A. Ramli, **S. J. Hashim**. New Approach of Cryptography Algorithm for





E-mail Applications, International Advanced Technology Congress, 2005

25. H. K. Almohair, A. R. Ramli, **S. J. Hashim**, A.M. Elsadig. A study of Image Filtering Using Pixel-based Skin Color Detection Techniques, Proceedings of Intelligent Systems and Information Technology Symposium (ISITS), 2004
26. H. K. Almohair, A. R. Ramli, **S. J. Hashim**, A.M. Elsadig. A Chromatic Model for Detecting Human Skin in Color Images, 2nd Real-Time Techniques and Applications Symposium (RENTAS), 2004
27. C M. Chuan, W. C. Seng, Y. H. Seng, Ng. C. Kyun, B. M. Ali, **S. J. Hashim**. Smart Remotely Access Distributed System, IEEE Student Conference on Research and Development (SCOReD), 2003
28. **S. J. Hashim**, K. Samsudin, A. R. Ramli. Bridging Digital Divide in the Developing Countries with Linux, Malaysia Open Source LINUX Conference 2002
29. **S.J. Hashim**, K. Jumari, M. Ismail. Computer Network Intrusion Detection Software Development, IEEE Region 10 International Conference (TENCON), 2000



Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Modelling and Cross-Layer Power Optimization in Standard Cell Library Design for System-on-Chip Application	RM423,900	2014-2015	CREST
2.	3-D Relative Positioning System For Multi-Rotorcraft Unmanned Aerial Vehicles (RUAVs) To Achieve Collision Avoidance: By Means Of Integration of Infrared, Ultrasonic and Vision Sensors	RM50,000	2012-2014	PUTRA IPM
3.	Fault Tolerant Control of Unmanned Aerial Vehicles (UAVs) Flying in Swarms	RM55,800	2012-2014	PUTRA IPM
4.	Mitigating Fiber Non-linearity Using Non-linear Companding Technique in Coherent Optical OFDM	RM15,000	2014-2015	- PUTRA IPS
5.	Hyperspectral Imager onboard Autonomous Airborne Platform for Natural Resource and Environmental Assessment	RM145,000	2013-2015	UPM RUGS
6.	A Complex Memory Gain Convergence Scheme to Model Nonlinear System with Memory Effect	RM74,000	2013-2015	KPT FRGS
7.	Swiftlets Wave Sound Detection, Recognition and Synthesis through Spectrogram Processing	RM381,400	2013-2015	MoA
8.	Design and Prototyping of an Energy Efficient OFDM Modulator for Broadband Wireless Devices	RM186,000	2012 - 2014	MOHE PRGS
9.	A Robust Digital Pre-distortion Scheme with Analog Imperfections Compensator in Wireless Communication Systems	RM66,000	2012 - 2014	MOHE ERGS
10.	Low Power Standard Cell Library Development	USD15,000	2013	SILTERRA
11.	Effectiveness of Industry-Oriented Education (IOE) in Closing Student Competency Gap for High-Pace Electronics Industry	RM20,000	2012 - 2014	UPM GIPP
12.	Biomimetic Distributed Control for Coordination of Multi-Robot Systems	RM15,000	2012-2014	UPM RUGS
13.	Mobility Management for Internet of Things (IoT) using Partial Soft Handover (PSHO) Scheme	RM151,200	2012-2014	MOSTI SCIENCEFUND



14.	Development of Efficient Security Protocol Based on Scalable Key Management Scheme	RM114,630	2012-2014	MOSTI SCIENCEFUND
15.	Design and Implementation of A Pre-distortion Technique To Increase Power Efficiency and Conserve Energy	RM145,000	2012-2014	UPM RUGS
16.	SCARECROW: Scalable Automatic Malware Reporting and Detection Utilizing Crowdsourcing	RM140,000	2012-2013	MOSTI SCIENCEFUND
17.	Scalable Malware Detection Utilizing Cloud Computing	RM30,000	2011-2013	UPM RUGS
18.	Very Large Scale Integration (VLSI) and System-on-Chip	RM56,250	2011-2012	UPM-INTEL
19.	The Effect of Emission from Short Range Devices on Radio Communication Services	RM236,000	2011	MCMC
20.	Muslim Prayer Time Table Using GPS	RM10,000	2004-2005	UPM



Awards/Recognition

Num	Name of awards	Title	Award Authority	Award Type	Year
1.	Excellent Service Award	Excellent Service	UPM	University	2013
2..	Best Paper Award	Best Paper	IEEE SCORed Conference	National	2013
3.	Excellent Service Award	Excellent Service	UPM	University	2012
4.	Excellent Teaching Award	Excellent Teaching	UPM	University	2012
5.	Excellent Service Award	Excellent Service	UPM	University	2011
6..	Android App Developer Challenge	Finalist	Axiata Celcom	National	2012
7.	Excellent Service Award	Excellent Service	UPM	University	2011
8..	Final Year Project Award	Best Final Year Project	IEEE Communication Society, Malaysian Chapter	Department	2011
9.	Malaysian Imagine Cup	Finalist	Microsoft Malaysia	National	2009
10.	Creativity and Originality in Microwave Measurement	3 rd Place	IEEE Microwave Theory and Technique Society, USA	International	2008
11.	SLAB Scholarship Award	PhD Scholarship	Public Service Department (JPA)	National	2005
12.	Excellent Scientist Award	Excellent Scientist	Ministry of Higher Education		2005

13.	Invention Award	Silver Medal	Salon International Des Inventions Geneve, Switzerland	International	2005
14.	Excellent Service Award		Universiti Putra Malaysia	University	2002
15.	BTU Bachelor Degree Scholarship Award	Bachelor Scholarship	Public Service Department (JPA)	National	1995
16.	BTU A-Level Scholarship Award	A-Level Scholarship	Public Service Department (JPA)	National	1993
17.	Best Student Award	SPM	Raja Tun Azlan Shah School (SERATAS)	School	1993

Professional Services/Consultation

No	Year	Title	Authority	Amount/ RM
1.	2011	Implementation of WSN Based Structure and Infrastructure Monitoring System.	Ministry of Communication and Multimedia	RM4,509,174
2.	2005	Research and Development of World Class Off-the-Shelf System Management Software	Innodium (M) Sdn. Bhd	RM140,000
3.	2005	Malay – English Computer Security Dictionary	Dewan Bahasa dan Pustaka (DBP)	RM3000
4.	2005	VoIP Systems Integration	Station Network (M) Sdn. Bhd.	RM200

Student Supervision
PhD (Main Supervisor)

No.	Name	Title	Status
1.	Mohd Nazrin Mohd Yassin (GS33992)	Frequency Domain Control of Impedance Matching for Non-linear Device Characterization	Ongoing

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Osamah Lutf Barakat (GS28228)	Enhanced Cuckoo Malware Analysis Performance Using Cloud Computing	Graduated
2.	Husam Kareem Farhan (GS33970)	Energy Efficient Two Stage Chain Routing Protocol (TSCP) For Wireless Sensor Networks	Graduated
3.	Nogol Memari (GS26974)	Lightweight HoneyNet based Container based Virtualization	Submitted
4.	Hamzah Fareed Rashid (GS26974)	Secure and Fast Handover for Mobile Wimax	Ongoing
5.	Sayed Abdolrahman Mousavian Najafabadi (GS37207)	Fully Automated and Scalable Cloud Architecture for Malware Detection	Ongoing
6.	Hamidreza Hasheminejad (GS37208)	Efficient HoneyNet as a Service Enabling Virtual Crime Scene Investigation	Ongoing

MS without Thesis (Main Supervisor)

No.	Name	Title	Status
1.	Tan Wee Hing (GS37835)	Threats of Cyber Terrorism In Malaysia	Ongoing