

CURRICULUM VITAE

Raja Syamsul Azmir Bin Raja Abdullah received his BEng. (2000) in Electronic and Electrical Engineering and MSc. (2001) in Communication System Engineering from The University of Birmingham, United Kingdom. He then received his PhD in 2005 also from The University of Birmingham majoring in Radar and Microwave System. He is currently an Associate professor in the Faculty of Engineering, Universiti Putra Malaysia (UPM). He hold various administrative positions including Head of Wireless and Photonics Networks Research Center (WiPNET) from 2009-2011, Development coordinator and Industrial Training coordinator. Later, he was seconded to UPM Holding Sdn Bhd from 2011 – 2013, a wholly-owned company by Universiti Putra Malaysia.



His standing in **research** is visible to the national and international research community in his area. His research focuses on the Radar Systems and Wireless Sensor. He is among the pioneer in developing advanced practical Forward Scattering Radar (FSR) System and the system has been adopted for various applications including civil, defense and medical. Apart from being a reviewer to many impact factor and flagship journals like IEEE Transaction on Aerospace and Electronic Systems (IEEE AESS), IET Radar Sonar and Navigations (IET RSN) and Progress in Electromagnetics (PIERS), he was also appointed as Visiting Academic and Researcher to The University of Birmingham and become the expert panel as well as advisor for its Radar system program and research. In addition, he actively involved and giving advice to the Lembaga Ilmuwan dan Penyelidikan Indonesia, Bandung Institute of Technology and Industry panel in Pakistan. He has delivered a number of keynotes, plenary speeches and invited speakers in United Kingdom, China, Turkey, Australia, Indonesia and Kingdom of Saudi. Through his R&D, he has won numbers of recognition including medal in the R&D exhibition namely MTE and PECIPTA. Currently, he actively involves with research collaboration between USA (Ohio State University), UK (The University of Birmingham, Durham University), China (Beijing Institute of Technology) focusing on the “Bio-Inspired” future radar and sonar system. In addition, he also collaborate with Cranfield University for project aiming in micro-object detection using Radar.

At national level, he has contributed in many expert panel meetings producing policies especially for technology, security, economy and technical standards. For example, he is the technical panel for Malaysian New Source of Growth and the key person in producing National Road Map for Sensor Technology as well as Malaysian Spectrum Standard. He is also a member of National Defense and Security Research Council for Malaysia.

In terms of **extension works** and **services**, he has involved in more than 13 consultancy projects for the government and private sectors with total value of more than RM17 million. He was also the recipient of UPM Excellent Consultant Award in 2014. For contribution in Agriculture, he has been appointed as a project member in a collaborative research with Malaysian Palm Oil Board (MPOB) focusing on the Development of Integrated Airborne Hyperspectral Remote Sensing and 3D Microwave Radar Tomography for Detection of Ganoderma Disease in Oil Palm. Furthermore, he has provided an integrated solution for small farmers to increase their yield through Ministry of Agriculture and paddy monitoring system for Malaysian Agricultural Research and Development Institute (MARDI) in the consultancy works.

In Institute of Electrical and Electronics Engineers (IEEE) Malaysia, he was the Chairman for IEEE Graduate of the Last Decade Chapter in 2009-2010 and recently, he has been elevated as Senior Member for IEEE AESS.

1. PERSONAL DETAILS

Full Name	Assoc. Prof. Dr Raja Syamsul Azmir Bin Raja Abdullah
Citizenship	Malaysia
Designation	Lecturer
Address	Department of Computer and Communication Systems Engineering, Faculty of Engineering, Universiti Putra Malaysia 43400 Serdang, Selangor Malaysia
email	r_syamsul@upm.edu.my

2. ACADEMIC QUALIFICATION

Certificate / Qualification obtained)	(Name of School / Institution)	(Year obtained)	(Area of Specialization)
PhD in Electronics Engineering	The University of Birmingham, United Kingdom	2005	Electronic and Electrical Engineering – Radar Systems
MSc in Communication, Computer and Human-Centred Systems Engineering (Major in Communication)	The University of Birmingham, United Kingdom	2001	Communications Systems Engineering
BEng (Hons)	The University of Birmingham, United Kingdom	2000	Electronic and Electrical Engineering

3. EMPLOYMENT/ACADEMIC POST

Employer	Designation	Department	Date
Universiti Putra Malaysia	Lecturer	Department of Computer and Communication Systems Engineering, Faculty of Engineering	November 2005 until now
	Head	Wireless and Photonics Research Centre, UPM	September 2008 – September 2011
UPM International, (UPM Holding Sdn Bhd)	General Manager		September 2011 – September 2012
UPM Consultancy and Services, (UPM Holding Sdn Bhd)	General Manager		September 2012 – September 2013
The University of Birmingham, UK	Visiting Researcher and Academic		2014

4. ADMINISTRATIVE DUTIES

Appointments		Level	Year
1. Coordinator	Development	Faculty	2016
2. Committee member	Curriculum Review: Bachelor of Computer and Communication Systems Engineering	Department	2016
3. Head Laboratory	Wireless Communication Systems	Department	2015
4. Associate Researcher	Wireless and Photonics Networks Research Center	University	2014
5. Head Laboratory	Wireless Communication Systems	Department	2011
6. Head Research Division	Wireless Communications Engineering	Faculty	2011
7. Head Research Center	Wireless and Photonics Networks Research Center	University	2008-2011
8. Committee member	Occupational Health and Safety	Faculty	2009
9. Committee member	Multipurpose Laboratory	Faculty	2009
10. Head Research Division	Wireless and Networks Engineering	Faculty	2008
11. Coordinator	Development	Faculty	2007 - 2008
12. Head Laboratory	Network and Communications Engineering	Faculty	2007
13. Committee member	Occupational Health and Safety	Faculty	2007
14. Associate Researcher	Institute of Software and Multimedia, Universiti Putra Malaysia	University	2006
15. Coordinator	UPM-IPTS Joint program	Faculty	2006-2007
16. Committee member	Faculty of Engineering Building Phase 2A	Faculty	2006
17. Committee member	Pre-Engineering Curriculum	Faculty	2006
18. Committee member	STAR Education Fair	Faculty	2006
19. Committee member	Master by Course MSc in Communication Network	Faculty	2006

5. TEACHING EXPERIENCE

Subject	Year	Level
1. KKK3201 Circuit and Electronic Devices	Sem II 2005/06	Bachelor
2. KKK3105 Electromagnetic Wave	Sem II 2005/06	Bachelor
3. KKK3604 Communication Systems Group 1	Sem I 2006/07	Bachelor
4. KKK3604 Communication Systems Group 2	Sem I 2006/07	Bachelor
5. KKK3105 Electromagnetic Wave	Sem II 2006/07	Bachelor
6. KKK4617 Radio Frequency Technique and Microwave	Sem II 2006/07	Bachelor
7. KKK3918 Industrial Training	Sem II 2006/07	Bachelor
8. KKK3604 Communication Systems	Sem I 2007/08	Bachelor
9. KKK3013 Advanced Applied Mathematics	Sem I 2007/08	Bachelor
10. ECC3108 Electromagnetic Wave	Sem II 2007/08	Bachelor
11. KKK5955 Special Topics (Radar System)	Sem II 2007/08	Postgraduate
12. KKK3604 Communication Systems	Sem II 2007/08	Bachelor
13. KKK5955 Special Topics (Bistatic Radar)	Sem I 2008/09	Postgraduate
14. KKK5604 Microwave Engineering	Sem I 2008/09	Postgraduate
15. KKK3604 Communication Systems	Sem I 2008/09	Bachelor
16. KKK4617 Radio Frequency Technique and Microwave	Sem II 2008/09	Bachelor
17. KKK5603 Mobile and Cellular Communications	Sem II 2008/09	Postgraduate
18. ECC5503 Microwave Engineering	Sem I 2009/10	Postgraduate
19. ECC4504 Radio Frequency Technique	Sem II 2009/10	Postgraduate
20. ECC5503 Microwave Engineering	Sem I 2010/11	Postgraduate
21. ECC5955 Special Topics (Advanced Bistatic Radar)	Sem II 2010/11	Postgraduate
22. ECC4501 Satellite and Mobile Radio Communications	Sem II 2010/11	Bachelor
23. ECC3108 Electromagnetic Wave	Sem II 2014/15	Bachelor
24. ECC3108 Electromagnetic Wave	Sem I 2015/16	Bachelor
25. ECC3108 Electromagnetic Wave	Sem II 2015/16	Bachelor

26. ECC4501 Mobile Radio and Satellite Communications	Sem I 2016/17	Bachelor
27. ECC3108 Electromagnetic Wave	Sem I 2016/17	Bachelor
28. ECC399 Final Year Project	2006,2007,2008,2009, 2010,2014,2015,2016	Bachelor

6. SUPERVISIONS

Postdoctoral			
1. Dr. Asem Ahmad Mohamad Salah	Cognitive Radar	2016	
2. Dr. Emileen Abdul Rashid	Forward Scattering Radar	2016	
PhD: Chairman			
1. Mardeni Bin Roslee	Ground Penetrating Radar For Road Pavement Density	Completed	2010
2. Ahmad Sabri Mousa Saqer	Efficient Signaling Schedule For Centralized And Distributed Scheduling Algorithms For Wimax Multi-Hop Relay Networks	Completed	2011
3. Mojtaba Mohammadpoor	Circular Synthetic Aperture Radar Systems For On-The-Ground Object Detection	Completed	2013
4. Abbas Mehdizadeh	Multicast-Unicast Key Management And Data Delivery Method In Wireless Ipv6 Networks	Completed	2013
5. Asem Ahmad Mohamad Salah	LTE-Based Passive Radar For Ground Target Detection And Tracking	Completed	2015
6. Nor Hafizah Abdul Aziz	Passive Forward Scattering Radar	Ongoing	
7. Nur Luqman Salleh	Human Echolocation	Ongoing	
8. Ali Al Naab	Micro Doppler Analysis in Forward Scattering Radar	Ongoing	
9. Surajo Alhaji Musa	Satellite Based Passive Radar	Ongoing	
PhD: Co-supervisor			
1. Ghafour Amouzad Mahdiraji	Duty-Cycle Division Multiplexing (DCDM)	Completed	2009
2. Yadollah Hezarjaribi	Evaluation for diaphragm's deflection for MEMS pressure sensors,	Completed	2010
3. Saleh Ali Al Shehri	Breast tumor detection using microwave ultra wideband (UWB)	Completed	2011
4. Ahmed Mudheher Hasan	Wavelet filter for GPS/INS data fusion	Completed	2012
5. Adam Reda Hasan Alhawari	Miniaturized Ultra-Wideband Antenna Using Microstrip Negative Index Metamaterial	Completed	2012
6. Farhad Mesrinejad Javad	Battery Aware Hybrid Forwarding Scheme for 6LOWPAN	Completed	2012
7. Farzan Khatib	Automatic Tumor Detection in Ultrasound Breast Images Ultra-Wideband	Completed	2012
8. Ahmad Mohammadi	Carbon-Nanotube-Based FR-4 Patch Antenna as a Bio-Material Sensor	Completed	2014
9. Md Nazmus Sadat	Resource Allocation Algorithm for Improving Performance of the OFDMA	Completed	2015
10. Ahmad Fairuz Muhammad Amin		Ongoing	

11. Amjad Najim Jabir		Ongoing	
12. Motea Saleh Lohammed Al-Omari	A Femtocell Cross-Tier Interference Mitigation Technique in OFDMA-LTE System	Ongoing	
13. Azlinda Ramli	Compact Multilayer Bandpass Filter	Ongoing	
14. Vahid Khodamoradi	Green 5G Wireless Communications	Ongoing	
15. Kama Azura Othman	Micro-Doppler in Forward Scattering Radar	Ongoing	
MSc: Chairman (by research)			
1. Yoharaaj a/l Doraisingam	A study of Bandwidth Enhancement Technique in Microstrip Antenna for Wireless Applications	Completed	2007
2. Mutaz Salah Mohamed Sadig	Speed Estimation In Forward Scattering Radar	Completed	2009
3. Mohamed Khalafalla Hassan Mohamed	Ground Target Detection In Forward Scattering Radar Using Hilbert Transform And Wavelet Technique	Completed	2009
4. Nor Khairiah Bt Ibrahim	Vehicle Classification Using Neural Network In Forward Scattering Radar	Completed	2010
5. Saba Adabi	Analysis Of Ultrawideband Forward Scattering Radar Cross Section For Breast Cancer Detection	Completed	2010
6. Asem Ahmad Mohamad Salah	Resource Allocation Algorithm For OFDMA Relay Networks With Fairness And QOS Guarantee	Completed	2011
7. Aris Munawar	Foreign Object Debris Detection Based On Continuous Wave Forward Scattering Radar Doppler Effect	Completed	2012
8. Octarina Nur Samijayini	Simulation Of Microwave Bistatic Radar For Breast Cancer Detection	Completed	2012
9. Mohanad Dawood Hasan Aldabbagh	Optimized Differential Evolution Algorithm For Linear Frequency Modulation Radar Signal Denoising	Completed	2013
10. Norazah Abdullah	Adaptive Modulation and Coding for 38GHz Rain Fade Counter Measure	Ongoing	
11. Nur Salimah Baharun	Early Stage Breast Cancer Detection using FSR	Ongoing	
12. Ahmad Najib Habeeb	Analysis of Inductive Coupler Performance for Powerline Communication	Ongoing	
13. Azizi Mohd Ali	Forward Scattering Radar	Ongoing	
MSc: Co-supervisor (by research)			
1. Hashem Mohamed Alaidaroos	Centralize Decentralization by Ahp Algorithm in Maintenance Management	Completed	2007
2. Mohamed Faisal Abdalla Elhag	New multiplexing technique based on return-to-zero	Completed	2008
3. Abbas Mehdizadeh Zare Anari	Route Optimization Security In Mobile Ipv6 Wireless Networks	Completed	2008
4. Adenji Oluwashola David	Resource Management Software For Multihoming In-Vehicle Of Ipv6 Network	Completed	2009
5. Mohammad Hossein Fotouhi Ghazvini	An Energy Efficient Mac Layer Design for Wireless Sensor Network	Completed	2009
6. Maryam Vahabi	Adaptive data collection algorithm for wireless sensor networks	Completed	2009
7. Babak Kazemi Esfeh	Narrowband Elliptic Bandpass Filter Using Dual-Mode Microstrip Square Loop Resonator	Completed	2009
8. Adam Reda Hasan Alhawari	U-shaped inductively coupled feed RFID tag antenna for gain enhancement	Completed	2009
9. Ayyoub Akbari Moghanjoughi	Load-Balancing In Qos-Based For Wireless Mesh Networks Routing	Completed	2009

10. Iman Avazpour	New Approach To Seeded-Region Growing Method In Tomography Image Segmentation	Completed	2010
11. Wessam Zayd Shareef	Miniaturization of microstrip and cpw-fed uwb printed antennas with band rejection characteristics	Completed	2011
12. Suci Rahmatia	Parametric analysis and design of compact omnidirectional and directional ultra-wideband antenna	Completed	2011
13. Nurul Izzah Binti Mohd Yusoff	Characterization and analysis of ultra wideband signal absorption rates in breast tissues.	Completed	2011
14. Mohd Hafrizal Bin Azmi	Local-Global Block Analysis for Image Enhancement Techniques	Completed	2011
15. Ghasan Ali Husain	Concatenated RS-convolutional codes for MIMO-OFDM system	Completed	2013
16. Osamah Lutf Barakat	Malware analysis performance enhancement using cloud computing	Completed	2013
17. Karrar Naji Salman Al Khanjar	High Gain Coplanar UHF RFID Tag Antenna Using Inductively Coupled Feed for Metallic Applications	Completed	2016
18. Safa Nassr Nafea	Low Side Lobe Level Multilayer Antenna for Wireless Applications	Completed	2016
19. Fuad Naim Ahmed Erman	High Gain Metal-mounted RFID Tag Antenna Using Split-ring Resonators with Inductive Outer Strip Lines	Ongoing	
20. Noor Mohammed Noori	Novel Hybridgrating Bowtie Antenna Based On Metamaterial Structures And Cavity-Backed Reflectorfor High Gain Wideband Applications	Ongoing	

Bachelor

1. Agung Samudra Kurniawan Harry	Radar Image enhancement	2005/06
2. Rohana Bt Md Junid	Forward Scattering Radar Signal Classification	2006/07
3. Julie Zarina Kusairi	Radar Ad Hoc network	2006/07
4. Khelwa Fariza Mohd Sakroni	Forward scatter electromagnetic wave cross range resolution	2006/07
5. Tan Yean Peng	Hidden speed information in the wave signal	2006/07
6. Muhamad Aiman Bin Muhamad Nasir	Early Stage Breast Cancer Detection System using Radar Communication	2007/08
7. Noor Razila Binti Rashid	Early Stage Breast Cancer Detection	2007/08
8. Aswita Sazmin Bt Ismail @ Hj Ja'far	Tsunami Detection by using Forward Scattering Radar	2007/08
9. Nurul Hidayah Binti Nasir	RF Protocol for Digital meter reading	2007/08
10. Maliazurina Bt Saad	Automatic meter reading (RFID)	2007/08
11. Adi Aizat B Abd Latif	Bluetooth based system for child care purposes	2008/09
12. Vinekswaran Kesavan	Mobile RFID tag locator/detector	2008/09
13. Syahril Edzat Bt Mohamed	GSM Jamming Device	2008/09
14. Nor Azlinawati Bt Ishak	"Water Head" monitoring system	2008/09
15. Zuriana Zamberi	Interference In Radiocommunications	2009/10
16. Ruziah Hanis	Fruit Ripeness Sensor	2009/10
17. Lim Chin Han	Multifrequency Signal Carrier	2010/11
18. Muhamad Nizam Mohd	Object Penetrating Radar	2010/11
19. Mohd Aidil Bin Mohd Ain	Human Tongue click signal for object recognition	2014/15
20. Khairin Ameera Binti Khamaruzaman	Vehicle Classification based on Passive Radar	2015/16
21. Norkhairi Bin Norhayat	Seeing with sound	2015/16

7. PUBLICATION - Journals

<ul style="list-style-type: none"> » Author ID: 56962777900 (Scopus) » H-Index = 11 (Scopus) » Number of Citations = 487 (Scopus) » Journals = 71 <ul style="list-style-type: none"> ▪ As senior/corresponding authors = 32 ▪ Citation indexed journals = 69 ▪ Non-indexed journals = 2 » Conference Proceedings = 51 » Chapters in Books = 3 » Magazine/Bulletin/Newsletter = 2 » Classified Reports = 31 » Editorial of Conference Proceedings = 4 	
2017	Indexed by/Quartile
1. R.S.A. Raja Abdullah, A.A. Salah, A. A. Alnaeb, A. Sali, N.E. Abd Rashid, I. P. Ibrahim, Micro-Doppler Detection in Forward Scattering Radar: Theoretical Analysis and Experiment, Electronics Letters, (Published-eFirst), 18 January 2017, doi: 10.1049/el.2016.4163	Q3 (0.854)
2016	
2. Raja Syamsul Azmir Raja Abdullah, Azizi Mohd Ali, Mohd Fadlee A Rasid, Nur Emileen Abdul Rashid, Asem A. Salah and Aris Munawar, Joint Time-Frequency Signal Processing Scheme in Forward Scattering Radar with a Rotational Transmitter, Remote Sensing, 8(12), 1028, 2016; doi:10.3390/rs8121028	Q1 (3.036)
3. RSA Raja Abdullah, N.H. Abdul Aziz, N. E. Abdul Rashid, Asem A. Salah and F. Hashim, Analysis on Target Detection and Classification in LTE-Based Passive Bistatic Forward Scattering Radar, Sensors, 16(10), 1607, 2016 ; doi:10.3390/s16101607	Q1 (2.033)
4. Raja Syamsul Azmir Raja Abdullah, Asem A. Salah, Alyani Ismail, Fazirul Hisham Hashim, Nur Emileen Abdul Rashid, Nor Hafizah Abdul Aziz, Experimental investigation on target detection and tracking in passive radar using long-term evolution signal, IET Radar Sonar Navigation, Vol. 10, Iss. 3, pp. 577–585, 2016	Q2 (Flagship)
5. RSA Raja Abdullah, Asem A. Salah, A. Ismail, F. Hashim, N. E. Abdul Rashid and N.H. Abdul Aziz, LTE-Based Passive Bistatic Radar for Ground Moving Target Detection, ETRI Journal, Volume 38, Number 2, pp. 302-313, 2016	Q3 (0.771)
6. Aziz NHA, RSA Raja Abdullah, Speed Recognition Based PCA on Ground Vehicle in Passive Forward Scattering Radar, Journal of Telecommunication, Electronic and Computer Engineering, vol. 8(3), 2016	SCOPUS
7. Safa N. Nafea ¹ , Alyani Ismail and Raja S. A. Raja Abdullah, “ Low Side Lobe Level Multilayer Antenna for Wireless Applications, Progress In Electromagnetics Research Letters, Vol. 58, 105–111, 2016	SCOPUS
8. Motea Al-omari, Abd Rahman Ramli, A. Sali and Raja Syamsul Azmir, A Femtocell Cross-Tier Interference Mitigation Technique in OFDMA-LTE System: A Cuckoo Search based Approach, Indian Journal of Science and Technology, Vol 9(2), January 2016 DOI: 10.17485/ijst/2016/v9i2/80490,	SCOPUS
9. Motea Al-Omari, Abd Rahman Ramli, A. Sali, Raja Syamsul Azmir, Deployment Of Femtocell And Its Interference Management Approaches In LTE Heterogeneous Networks, Journal of Theoretical and Applied Information Technology, Vol.87. No.1, 2016	SCOPUS
2015	
10. Mohanad Dawood Al-Dabbagh, RSA Raja Abdullah and F. Hashim, A new modified differential evolution algorithm scheme-based linear frequency modulation radar signal de-noising, Engineering Optimization, Vol. 47(6), 771-787, 2015	Q2 (1.076)
11. RSA Raja Abdullah, A.A. Salah, N.E. Abdul Rashid, Moving Target Detection by Using New LTE-Based Passive Radar, Progress In Electromagnetics Research B, Vol. 63, 145-160, 2015	SCOPUS

12. N.H. Abdul Aziz, RSA Raja Abdullah , Baseline Recognizing on Ground Moving Target Detection via Clustering Based PCA, International Journal of Applied Engineering Research, Vol. 10 No.89 (2015)	SCOPUS
13. Noor Hafizah A. A., Haziq Hazwan M.Y., Nur Emileen A.R., RSA Raja Abdullah , RCS Analysis On Different Targets And Bistatic Angles Using LTE Frequency, International Journal Of Industrial Electronics And Electrical Engineering, Volume-3, Issue-7, July-2015 pp. 1-4	DRJI, OAJI
14. Md. Nazmus Saadat, Borhanuddin Mohd Ali, Aduati Sali, Raja Syamsul Azmir Raja Abdullah and Hafizal Mohamad, Resource Allocation Algorithm for Improving Performance of the OFDMA Based Connection Oriented Networks, Transactions on Networks and Communications, Vol.34(6), 2015	ULRICH, Crossref
2014	
15. A.A. Salah, RSA Raja Abdullah , A. Ismail, F. Hashim and N.H. Abdul Aziz, Experimental study of LTE signals as illuminators of opportunity for passive bistatic radar applications, Electronics Letters, Vol: 50(7), 545 – 54, 2014	Q3 (0.930)
16. Abbas Mehdizadeh, Fazirulhisyam Hashim, RSA Raja Abdullah , Borhanuddin Mohd Ali, Sabira Khatun, Mohamed Othman, Multicast-Unicast Data Delivery Method in Wireless IPv6 Networks, Journal of Network System and Management, vol.22, 583–608, 2014. DOI 10.1007/s10922-013-9268-2	Q3 (0.796)
17. A. R. H. Alhawari , A. Ismail, A.S.A Jalal, R. S. A. R. Abdullah , M. F Rasid, U-shaped inductively coupled feed radio frequency identification tag antennas for gain enhancement, Electromagnetics, Vol.34(6), 487-496, 2014. DOI: 10.1080/02726343.2014.922767	Q3 (0.798)
18. Abbas Mehdizadeh, RSA Raja Abdullah , Fazirulhisyam Hashim, Borhanuddin Mohd Ali, Mohamed Othman, Sabira Khatun, Performance Evaluation of Cost-EffectiveMulticast–Unicast Key Management Method, Wireless Personal Communications, vol.77(3), 2195–2212, 2014. DOI 10.1007/s11277-014-1633-2	Q4 (0.653)
19. OL Barakat, SJ Hashim, RSA Raja Abdullah , AR Ramli, F Hashim, 'Malware analysis performance enhancement using cloud computing', Journal in Computer Virology, vol.10 (1), 1-10 2014. DOI: 10.1007/s11416-013-0187-2	SCOPUS
2013	
20. M. Mohammadpoor, RSA Raja Abdullah , A. F Abas, A. Ismail, Foreign Object Detection Based On Circular Bistatic Synthetic Aperture Radar, Progress In Electromagnetics Research, Vol. 134, 301-322, 2013	Q1 (Flagship 5.72)
21. M. Mohammadpoor, RSA Raja Abdullah , Asem A, Saleh, Mohanad Dawood, A Bistatic Linear Frequency Modulated Radar for On-the-Ground Object Detection, Electromagnetics, Vol 33, 153 – 177, 2013 DOI: 10.1080/02726343.2013.756295	Q3 (0.798)
22. Abbas Mehdizadeh, RSA Raja Abdullah , Fazirulhisyam Hashim, Borhanuddin Mohd Ali, Mohamed Othman, Sabira Khatun, Reliable Key Management and Data Delivery Method in Multicast Over Wireless IPv6 Networks, Wireless Personal Communications, Vol 73 (3), 967-991, 2013. DOI: 10.1007/s11277-013-1226-5	Q4 (0.653)
2012	
23. M. Mohammadpoor, RSA Raja Abdullah , A. F Abas, A. Ismail, A Circular Synthetic Aperture Radar For On-The-Ground Object Detection, Progress In Electromagnetics Research, Vol. 122, 269-292, 2012	Q1 (Flagship-6.22)
24. Farzan Khatib, Rozi Mahmud, M. Iqbal Saripan, Syamsiah Mashohor, Raja Syamsul Azmir Raja Abdullah , Enhancing Breast Ultrasound Images : A Phantom Study, Biophysical Journal, 102(3) pp. 186a, 2012	(Q2) (3.653)
25. RSA Raja Abdullah , O. N. Samijayani, S. Adabi, A. Ismail, M. I. Saripan and S. A. Alshehri, Breast tumor detection using microwave ultra wideband (UWB) forward scattering radar system, International Journal of Physical Sciences, Vol. 7(46), pp. 6062-6074, 2012	DOAJ, EVISA
26. A. R. H. Alhawari , A. Ismail, M. A. Mahdi and R. S. A. R. Abdullah , 'Antipodal Vivaldi Antenna Performance Booster Exploiting Snug-In Negative Index Metamaterial', Progress In Electromagnetics Research C, Vol. 27, pp. 265–279, 2012	SCOPUS
27. Mohd Hafrizal Azmi, Fakhrol Zaman Rokhani, Raja Syamsul Azmir Raja Abdullah and M.Iqbal	DOAJ,

Saripan, Improving the Quality of Pigskin Leather Texture Images using Enhanced Image Processing, Scientific Research and Essays, Vol.7(12), pp.1304–1311, 2012	Genamics Journal
28. Farzan Khatib, Rozi Mahmud, Syamsiah Mashohor, M.Iqbal Saripan, Raja Syamsul Azmir Raja Abdullah , Automatic Mass Detection in Ultrasound Breast Images Using Computer Assisted Detection, Iranian Journal of Medical Informatics, vol 1 (20) (2012)	DOAJ, EBSCO, DRJI
2011	
29. Alshehri, S.A. , Khatun, S., Jantan, A.B., Abdullah, R.S.A.R. , Mahmud, R., Awang, Z, Experimental breast tumor detection using NN-based UWB imaging, Progress In Electromagnetics Research, vol.111, 447-465, 2011.	Q1
30. Alshehri, S.A. , Khatun, S., Jantan, A.B., Abdullah, R.S.A.R. , Mahmud, R., Awang, Z, 3D experimental detection and discrimination of malignant and benign breast tumor using NN-based UWB imaging system, Progress In Electromagnetics Research, vol.116, 221-237, 2011. DOI: 10.2528/PIER11022601	Q1
31. RSA Raja Abdullah , MF A Rasid and MKH Mohamed, Improvement In Detection with Forward Scattering Radar, Science China Information Sciences, Vol. 54 No.12: 2660-2672, 2011 doi: 10.1007/s11432-011-4476-4	Q3
32. Adam Reda Hasan Alhawari, Mohamad Adzir Mahdi, Raja Syamsul Azmir Raja Abdullah , Alyani Ismail, Miniaturized Ultra-Wideband Antenna Using Microstrip Negative Index Metamaterial, Electromagnetics, Vol.31(6), 404–418, 2011. DOI: 10.1080/02726343.2011.590961	Q3 (0.798)
33. A Salah, RSA Raja Abdullah and BM Ali, A Low Complexity Resource Allocation Algorithm for OFDMA Cooperative Relay Networks with Fairness and QOS Guaranteed, IEICE Transaction in Communications, Vol.E94-B(8), 2328-2337, 2011. DOI: 10.1587/transcom.E94.B.2328	Q4 (0.301)
34. Hezarjaribi, Y., Hamidon, M., Sidek, R., Hossein, K., Abdullah, R. , Bahadorimehr, A. Evaluation for diaphragm's deflection for touch mode MEMS pressure sensors, International Arab Journal of Information Technology, Vol. 8(2), 141-146, 2011.	Q4 (0.582)
35. ARH Alhawari, A Ismail, MA Mahdi, RSA Raja Abdullah , ' Development of novel tunable dual-band negative index metamaterial using open stub-loaded stepped-impedance resonator', Progress In Electromagnetics Research B, vol.35, 111-131, 2011. DOI: 10.2528/PIERB11082209	SCOPUS
36. Alshehri, S.A. , Khatun, S., Jantan, A.B., Abdullah, R.S.A.R. , Mahmud, R., Awang , Experimental Approximation of Breast Tissue Permittivity and Conductivity Using NN-Based UWB Imaging, Communications in Computer and Information Science, Vol179 pp.332-341, 2011	SCOPUS
37. Asas Hussain, G. A, Mokhtar M. B, RSA Raja Abdullah , Concatenated RS-convolutional codes for MIMO-OFDM system, Asian Journal of Applied Sciences, Vol.4(7), 720-727, 2011. DOI: 10.39231ajaps.2011.720.727	SCOPUS
38. Amin, A.F.M., Aris, I.Halin, I.B.A., Abdullah, R.S.A.R. , Sahbudin, R.K.Z., Abdullah, M.K, Development of vehicle communication system using FPGA, Australian Journal of Basic and Applied Sciences, Vol.5(6), 1026-1038, 2011.	SCOPUS
39. Ahmed Mudheher Hassan, Khairulmizam Samsudin, Abdul Rahman Ramli, RSA Raja Abdullah , Automatic Estimation Of Inertial Navigation System Errors For Global Positioning System Outage Recovery, Journal of Aerospace Engineering, Vol.225(1), p.86-96, 2011	SCOPUS
40. Saleh A Alshehri, Sabira Khatun, Adznan B Jantan, RSA Raja Abdullah , Rozi Mahmud, Zaiki Awang, Feature Reduction Effect on UWB Imaging for Breast Tumor Detection, Journal of Communication and Computer 8 (2011) 636-644	EBSCO
2010	
41. Ghafour Amouzad Mahdiraji, Mohamad Khazani Abdullah, Fauzi Abas, Makhfudzah Mokhtar, Safuraa Mohd Basir, RSA Raja Abdullah , 70 Gb/s Amplitude-Shift-Keyed System with 10 GHz Clock Recovery Circuit using Duty Cycle Division Multiplexing, Photonic Network Communications, vol.19(3), 233-239, 2010.	Q3 (0.419)
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 33. Mutaz Salah, **RSA Raja Abdullah**, MF A Rasid, Mohamed Khalafalla, Speed Estimation in Forward Scattering Radar, IASTED International Conference, Malaysia, 2008
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Wireless Applications', Progress In Electromagnetic Research Symposium, Beijing, China, 2007

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45. **Raja Abdullah RSA**, Cherniakov M, Jančovič P, Salous M., 'Progress On Using Principle Component Analysis In FSR For Vehicle Classification', 2nd International Workshop in Intelligent Transportation, WIT2005, Germany, 2005
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9. CHAPTERS IN BOOKS

1. M.H.Fotouhi Ghazvini, M. Vahabi, M.F.A Rasid, R.S.A Raja Abdullah , Improvement of MAC Performance for Wireless Sensor Networks, Advances in Computer Science and Engineering, Springer Berlin Heidelberg, Vol. 6, pp.147-152, 2008. ISBN 978-3-540-89984-6	Indexed by: SCOPUS
2. Abbas Mehdizadeh, S. Khatun, Borhanuddin .M. Ali, R.S.A. Raja Abdullah , G. Kurup, Route Optimization Security In Mobile Ipv6 Wireless Networks, Advances in Computer Science and Engineering, Springer Berlin Heidelberg, Vol.6, pp. 153-159, November 2008. ISBN 978-3-540-89984-6	Indexed by: SCOPUS
3. Mohd Hafrizal Azmi, M. Iqbal Saripan and Raja Syamsul Azmir Raja Abdullah , Illumination Compensation for Document Images Using Local-Global Block Analysis, Lecture Notes Computer Series, Vol 5857, pp646-646 2009.	Indexed by: SCOPUS

10. CLASSIFIED REPORTS

	Authority/Company	Year
1. Network Automatic Meter Project	Significant Technology Sdn Bhd	2007
2. Wimax Mesh Protocol Design	MIMOS Bhd	2010
3. Applicator chamber design - simulation study on power and energy intensity on high power microwave heating for biomass	Pakar management Technology (PMT) sdn Bhd.	2016
4. The Effect of Emission from Short Range Devices on Radio	Malaysian Communication and Multimedia Commissions	2009

Communications Services

5.	Electrical and Material Characteristics Testing on the Waveguide Pressure Window Radar	TUDM Aerospace Engineering Service Center	2015
6.	Seeing With Sound	GLOBAL INNOVATION INITIATIVE (GII) GRANT	2014
7.	Inception Report : A Strategic Plan For The Implementation Of Wireless Sensor Technology In Malaysia	Ministry of Water, Energy and Communication	2007
8.	Inception Report Project 2: Development of WSN System Architecture	Ministry of Water, Energy and Communication	2007
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10.	Interim Report Project 2: Development of WSN System Architecture	Ministry of Water, Energy and Communication	2008
11.	Final Draft Report : A Strategic Plan For The Implementation Of Wireless Sensor Technology	Ministry of Water, Energy and Communication	2010
12.	Final Draft Report Project 2: Development of WSN System Architecture	Ministry of Water, Energy and Communication	2010
13.	Final Report : A Strategic Plan For The Implementation Of Wireless Sensor Technology In Malaysia	Ministry of Water, Energy and Communication	2010
14.	Final Report Project 2: Development of WSN System Architecture	Ministry of Water, Energy and Communication	2010
15.	Inception Report : Implementation of WSN- based Slope Monitoring Application	Ministry of Information, Communication and Culture	2011
16.	Inception Report : Establishment Of Standards And Guidelines For WSN Implementation In Malaysia	Ministry of Information, Communication and Culture	2011
17.	Inception Report : Development of WSN Based System for Precision Agriculture	Ministry of Information, Communication and Culture	2011
18.	Inception Report : Implementation of WSN Based Critical Structure and Infrastructure Monitoring System	Ministry of Information, Communication and Culture	2011
19.	Inception Report : Awareness Seminar and Workshop on WSN Technology and Applications	Ministry of Information, Communication and Culture	2011
20.	Interim Report : Establishment Of Standards And Guidelines For WSN Implementation In Malaysia	Ministry of Information, Communication and Culture	2012
21.	Interim Report : Development of WSN Based System for Precision Agriculture	Ministry of Information, Communication and Culture	2012
22.	Interim Report : Implementation of WSN Based Critical Structure and Infrastructure Monitoring System	Ministry of Information, Communication and Culture	2012
23.	Interim Report : Awareness Seminar and Workshop on WSN Technology and Applications	Ministry of Information, Communication and Culture	2012
24.	Final Draft Report : Establishment Of Standards And Guidelines For WSN Implementation In Malaysia	Ministry of Information, Communication and Culture	2013
25.	Final Draft Report : Development of WSN Based System for Precision Agriculture	Ministry of Information, Communication and Culture	2013
26.	Final Draft Report : Implementation of WSN Based Critical Structure and Infrastructure Monitoring System	Ministry of Information, Communication and Culture	2013
27.	Final Draft Report : Awareness Seminar and Workshop on WSN Technology and Applications	Ministry of Information, Communication and Culture	2013
28.	Final Report : Establishment Of Standards And Guidelines For WSN Implementation In Malaysia	Ministry of Information, Communication and Culture	2013
29.	Final Report : Development of WSN Based System for Precision Agriculture	Ministry of Information, Communication and Culture	2013

30. Final Report : Implementation of WSN Based Critical Structure and Infrastructure Monitoring System	Ministry of Information, Communication and Culture	2013
31. Final Report : Awareness Seminar and Workshop on WSN Technology and Applications	Ministry of Information, Communication and Culture	2013

11. OTHER PUBLICATIONS

Magazines/Bulletin/Newsletter

1. Mohd Fadlee A. Rasid, Nor Kamariah Noordin, **Raja Syamsul Azmir Raja Abdullah**, Ahmad Fauzi Abas and M. Iqbal Saripan, "Wireless Sensor Network: The Next Generation of Sensor Technology", ENTIC FEIIC Bulletin on Engineering and Technology for Islamic Countries, ISSN 19854641, Vol 1, pp. 7-8, 2008
2. AM Ali, **RSA Raja Abdullah**, MF A Rasid, MI Saripan, BM Ali, NK Noordin, NE Zainuddin, The Importance of WSN-Based Slope Monitoring in Malaysia, MSET Newsletter, pp. 6-7, Oct – Dec 2008

Editorial of Conference Proceedings

1. Proceeding of International Conference on Defence and Security Technology, 2009
2. Proceeding of IEEE International Conference on Communications, 2009
3. Proceeding of International Conference on Defence and Security Technology, 2016
4. Vehicle Communication Conference, 2003

12. RESEARCH PROJECTS/GRANTS

- » Total number of Research Grants = 23
- » Total number of Research Grants (as Principal Investigator) = 10
- » Total value of Research Grants = RM 13,076,894

Project Leader

1. Developing Aid Device for Blind Human Echolocation	UPM - Geran Putra	RM 14,900	2016 – 2018
2. The Study Of Biological Signal From A Blind Person For Radar Application	UPM - Geran Putra	RM 81,200	2015 – 2017
3. Multistatic Synthetic Aperture Radar for Airport Runway Safety	MOSTI (Sciencefund)	RM 301,000	2012 – 2013
4. Netted Passive Radar For Low Altitude Flying Target Detection And Classification	MOHE (ERGS)	RM 131,000	2011 – 2013
5. High Doppler Resolution by Multistatic Shadow Synthetic Aperture Radar	UPM (RUGS)	RM 300,000	2010 – 2012
6. Emissions From Short Range Devices to Radio Communications	Malaysian Communication and Multimedia Commissions	RM 236,000	2009 – 2010
7. UWB Radar for Human Internal Organ Monitoring System	MOHE (FRGS)	RM 80,000	2007 – 2009
8. Security Enhancement of Mobile IPv6 Route	MOSTI (Sciencefund)	RM 174,998	2006 – 2009

Optimization				
9.	Forward Scattering Radar for Biodiversity Conservation Monitoring System	MOSTI (Sciencefund)	RM 185,996	2006 – 2008
10.	Forward Scattering Multi Frequency Sensor for Ground Target Classification	UPM (PLB)	RM 9,000	2006 – 2007
<u>Project Member</u>				
11.	Ubiquitous Pond Sensing for Proactive and Precision Aquaculture Farming	MOSTI (Sciencefund)	RM 212,300	2006 – 2009
12.	Low Loss Micromachined Microwave Transmission Line and Filters for RF MEMS Application	MOSTI (Sciencefund)	RM 209,000	2006 – 2009
13.	Vertical Fast Handoff Technique in MIPv6-Enabled Heterogeneous Networks	MOSTI (Sciencefund)	RM 186,000	2007 – 2009
14.	Development of a Non-destructive Ground Penetrating Radar (GPR) Device for Road Pavement Density Measurement	MOSTI (Sciencefund)	RM 165,000	2007 – 2009
15.	Emerging Wireless Technologies – issues of reliable communications above 25GHz in the Topics	Malaysian Communication and Multimedia Commissions	RM 930,000	2007 – 2009
16.	Novel Real-time Range Finder Algorithm and System for High Accuracy Long Range Measurement	MOHE (FRGS)	RM 100,000	2007 – 2009
17.	The Development And Implementation Of An Intelligent Tracking and Monitoring system using Embedded Wireless Sensor Network (WSN) With Radio Frequency Identification (RFID) For Industrial Automation	MOSTI (Sciencefund)	Undisclosed	2012 – 2014
18.	Development of Head Monitoring System Using Array Transceiver for Microwave Imaging Application	MOSTI (Sciencefund)	Undisclosed	2013 – 2015
19.	Setting up of VLBI stations in Malaysia	University Malaya Research Grant	RM 944,000	2013 – 2015
20.	Design of High Sensitive Terahertz Metamaterial Biosensor for Biomolecule Detection	UPM - Geran Putra	RM 49,000	2014 – 2016
21.	Private Partner Research Driven - Soft ice-cream	MOHE	RM 31,000	2016 - 2017
22.	Applicator chamber design - simulation study on power and energy intensity on high power microwave heating for biomass	MOHE Public Private Research Network	RM 25,000	2015 – 2016
23.	An Adaptive Widely Distributed MIMO radar in Unmanned Surface Vehicle (USV) networks for Maritime Security	Collaborative Research in Engineering, Science & Technology (CREST)	RM 242,500	2016 – 2018

13. CONSULTATION PROJECTS

- » Total number of Consultancy Projects = 13
- » Total number of Consultancy Projects (as Project Leader) = 4
- » Total Value of Consultancy Projects = RM 17,433,570

1.	Telecommunication Consultant for the Project on the upgrading of CELCOM Data Centres to uptime Institute Tier III Compliance	Transafe ICT Sdn Bhd	RM 20,988
2.	Implementation of WSN- based Slope Monitoring Application	Kementerian Penerangan, Komunikasi dan Kebudayaan	RM 2, 001,355
3.	Implementation of WSN- based Structure and Infrastructure Monitoring Application	Kementerian Penerangan, Komunikasi dan Kebudayaan	RM 4,509,174
4.	Development of WSN- Based System for Precision Agriculture	Kementerian Penerangan, Komunikasi dan Kebudayaan	RM 3,636,043
5.	Awareness Seminar and Workshop on WSN Technology & Applications	Kementerian Penerangan, Komunikasi dan Kebudayaan	RM 300,000
6.	Ice Cream based Technical Product New Formulation	LT Sdn Bhd	RM 40,000
7.	Wimax Mesh Protocol Design	MIMOS Bhd	RM 115,200
8.	Network Automatic Meter Project	Significant Technology Sdn Bhd	RM 5,000
9.	Study on the Readiness for Application of Sensor Technology	Kementerian Tenaga, Air dan Komunikasi	RM 1, 375,600
10.	WSN development for Agriculture and Industry Application	Kementerian Tenaga, Air dan Komunikasi	RM 1, 159,819
11.	NKEA E&E – Completion of a Technology POC to enable Commercialization of WSN	Economic Planning Unit, Malaysia	RM 3, 470,000
12.	Establishment of Standard and Guidelines for WSN Implementation in Malaysia	Kementerian Penerangan, Komunikasi dan Kebudayaan	RM 460,406.80
13.	Internet of Things	Kementerian Penerangan, Komunikasi dan Kebudayaan	RM 339,984

14. PATENT

1. **RSA Raja Abdullah**, Ahmad S. M Saqer, and Asem A. Salah, "Scheduling Method for Multi-Hop Relay Networks", Patent, IP20100006075, 20 Oct. 2010.

15. SPEAKER: INVITED/KEYNOTE/TUTORIAL/LECTURE

1. International Conference on Defence and Security Technology	Tutorial: Radar Systems, Applications, Latest Trends and Developments	2016
2. IEEE Asia Pacific Conference on Applied Electromagnetic	Invited: Bio-inspired Radar	2016
3. IET International Radar Conference, China	Invited: Stationary Object Detection in Forward Scattering radar	2015
4. Beijing Institute of Technology, China	Invited: Potential Future Applications in Forward Scattering Radar	2015
5. International Conference on Radar, Microwave and Telecommunications, Indonesia	Keynote: Forward Scattering Radar	2015
6. The University of Birmingham, UK	Invited: Human Echolocation – Radar Perspective	2014
7. Seminar on Slope Safety and Disaster Management	Wireless Sensor Network-based Slope Monitoring System	2013
8. International Seminar on Science and Technology Innovations, Indonesia	Invited: Illuminator of Opportunity – Passive Bistatic Radar	2012
9. Multimedia University	Invited: Bistatic Radar	2012
10. Institut Teknologi Bandung (ITB) Indonesia	Plenary: Ground Penetrating Radar	2010
11. WSN Awareness Seminar	Invited: Topology and Routing in Wireless Sensor Networks	2010
12. Wireless Sensor Technology	Invited: Short Range Communications	2010
13. Industrial Talk	Invited: Photonics and RF (Radar)	2010
14. Wireless Sensor Technology Seminar	Invited: Applications of Wireless Sensor Technology	2010
15. Workshop on Smart Sensor Systems	Keynote: Case Studies of WSN Applications	2010
16. Wireless Communications Colloquium (MIMOS)	Invited: Self-organized mechanism for 802.16j	2009
17. Lembaga Ilmuan dan Penyelidikan (LIPI) Indonesia	Plenary: Maritime Radar, Forward Scattering Radar	2009
18. Asia Pacific Advanced Network, Australia	Invited: Malaysia's Experience in WSN-based Slope Monitoring System	2009
19. Spectrum Research Colloquium	Invited: The Effect of Emission from Short Range Devices on Radio Communication Services	2009
20. Advanced Engineering and Innovation Centre (IIUM)	Tutorial: Signal Propagation in Radar	2009
21. Advanced Engineering and Innovation Centre (IIUM)	Tutorial: Special topic on Radar	2009

22. Postgraduate Seminar IIUM	Invited: Forward Scattering Radar System	2008
23. Workshop: Ionospheric Modeling For Malaysian SBAS	Invited: Research and Activities on Ionospheric Studies	2008
24. Postgraduate Seminar IIUM	Invited: Wireless Sensor Networks	2007

16. SERVICES/CONTRIBUTIONS

Journal/Book Reviewers (selected)

1. IET Radar Sonar and Navigation
2. IEEE Transactions on Aerospace and Electronic Systems
3. Progress in Electromagnetic Research (PIER)
4. IET Wireless Sensor Systems
5. EURASIP Journal on Advances in Signal Processing
6. Frontiers of Information Technology & Electronic Engineering
7. Springerplus
8. British Journal of Applied Science & Technology
9. Journal of Institution of Engineering Malaysia
10. Jurnal Teknologi
11. Book: UTM press, "Recent Trend in Wireless Communication System"

PhD Thesis Examiners

1. Mohammed Abdo Saeed Hezam	Universiti Putra Malaysia
2. Vahid Solouk	
3. Chong Jin Hui	
4. Mohammad Shahrzad Razalli	
5. Aliyu D Usman	
6. Ma Maniruzzaman Md Abdul Aziz	
7. Ibrahim Mustapha	
8. Shahideh Keihbadroudezhad	
9. Mustafa Ismael Salman	
10. Samer Adnan Ali Bani Awwad	
11. Nadeem Naeem	
12. Mahmoud Sami	
13. Mohammed Aliyu Gadam	
14. Lim Ka Sing	Multimedia Universiti (MMU)
15. Kamarudin Abdul Ghani	National Defence University Malaysia

MSc Thesis Examiners

1. Hasan Mohammad Hasan Abdel Qader	Universiti Putra Malaysia
2. Intan Shafinaz	
3. Bahrin Sujak	
4. Ahmad Zaidee Abu	
5. Aus M. Sulaiman	
6. Azad Abad	
7. Ahmed Mohamed Salih Bakhraiba	

8. Mubarak Abdallah Jama		
9. Helmi Adam		
10. Nasrul Hapiza Hamdan		
11. Mostafa Kamil Andul Husain Al-Harbawi		
12. Tareq Rasul		
13. Samer Adnan Ali Bani Awwad		
14. Alaa M Baker		
15. Omar M Ceesay		
16. Kamelia Muhammad Chatib		
17. Noor Syarida Bt Jusof	Universiti Sains Malaysia (USM)	
18. Nur Hija Bt Mahalin	Universiti Teknologi Malaysia (UTM)	
19. Oliver Ang ChinYang	Multimedia Universiti (MMU)	
20. Farid Bin Zubir	Universiti Teknologi Malaysia (UTM)	
21. Lee Yih Pey	Multimedia Universiti (MMU)	
22. Kwan Kok Fong	Multimedia Universiti (MMU)	
23. Mohd Annuar B Mohd Isa	Universiti Sains Malaysia (USM)	
24. Md Sumon Sarker	Universiti Malaya (UM)	
25. Norsiha binti Zainudin	Universiti Teknologi Malaysia (UTM)	
26. Sew Bee Cheng	Multimedia Universiti (MMU)	
27. Muhammad Zairil B Muhammad Nor	Universiti Teknologi Malaysia (UTM)	
28. Afifah Bt Taat	Universiti Teknologi Malaysia (UTM)	
29. Boey Huey Shen	Multimedia Universiti (MMU)	
30. Lee Yung Chong	Multimedia Universiti (MMU)	
Academic Promotion Evaluator		
1. Associate Professor	Universiti Malaysia Perlis (UniMAP)	
2. Research Officer (permanent)	Universiti Putra Malaysia	
Research Grant Evaluator		
1. Fundamental Research Grant Scheme	Universiti Putra Malaysia	2011
2. Grant Putra	Universiti Putra Malaysia	2014,2015, 2016
3. Research Progress (Grant Putra)	Universiti Putra Malaysia	2016
Academic Conference and Workshop		
4. Committee member	International Youth Workshop on Science and Technology Innovation	2007
5. Committee member	National Scholar Research Seminar	2007
6. Chairman	Defence and Security Technology Conference	2009
7. Secretary	IEEE International Conference on Communications	2009
8. Committee member	IEEE ComSoc Distinguished Lecture Program	2009
9. Committee member	Topical Meeting on Photonics	2010
10. Committee member	Defence and Security Technology Conference	2014
11. Committee member	IEEE ComSoc Distinguished Speaker Program – Wirelessly Powered Communications	2015
12. Chairman	Defence and Security Technology Conference	2016
13. Committee member	Asia Pacific Microwave Conference	2017
Journal Editorial Board Member		

1.	MAYFEB Journal of Electrical and Electronic Engineering, Canada	2015	
2.	Malaysian Society of Engineering and Technology Newsletter	2009	
3.	Journal of Institution of Engineering Malaysia	2008,2009	
Expert and Technical Panel			
1.	Expert panel: National Slope Master Plan	Public Works Department, Ministry of Works	2016
2.	Expert panel: Development and Research on Ground Based Radar	ANGKASA, Ministry of Science, Technology and Innovation	2015
3.	Expert panel: National R&D on Radar system	National Defence and Security Research Council	2011
4.	Technical panel: Generic Sensor	Capital Consultants	2011
5.	Panel: Telecommunication Exhibition	Universiti Teknologi Malaysia	2011
6.	Technical panel: Strategic Plan for Wireless Sensor Network	Economic Planning Unit (EPU), Prime Minister Office	2009
7.	Expert panel: National Occupational Skill Standard - Radar	Master Reach Network	2009
8.	Expert panel: Malaysian Technical Standards: (Aeronautical and Maritime)	Malaysian Communications and Multimedia Commission	2009
9.	Technical panel: Malaysian Standard (Automatic Identification)	SIRIM, Ministry of Science, Technology and Innovation	2009
10.	Technical panel: New Source of Growth (Wireless Sensor Network)	Economic Planning Unit (EPU), Prime Minister Office	2009
11.	Expert panel: Wireless Sensor Network	Economic Planning Unit (EPU), Prime Minister Office	2009
12.	Steering Committee: Research	Malaysian Communications and Multimedia Commission	2009
13.	Technical panel: Communications group	Ministry of Energy, Water and Communications	2007
14.	Expert panel: National Technology Roadmap for Communication Technology	MIMOS, Ministry of Science, Technology and Innovation	2007
15.	Expert panel: National Workshop on Strategic Development of Space R&D	ANGKASA, Ministry of Science, Technology and Innovation	2006
16.	Expert panel: Malaysian Technical Standards (Multimedia Terminal)	Malaysian Communications and Multimedia Commission	2005

17. RECOGNITION/AWARD

1.	Excellent Service Award	Universiti Putra Malaysia	2006,2007,2008, 2009, 2010, 2011
2.	Excellent Teaching Award	Faculty of Engineering, Universiti Putra Malaysia	2008,2009,2010,2011
3.	Excellent Consultant Award	Universiti Putra Malaysia	2013
4.	Finalist	Teaching and Learning Innovation Best Practice	2016
5.	Gold medal	Invention, Research and Innovation Exhibition: GPR Road Pavement System	2009
6.	Best of the Best Award	Malaysian Technology Expo: Secured Route Optimization in Mobile IPv6 Networks with Enhanced Micro-Mobility Solution	2009
7.	Gold medal	Invention, Research and Innovation Exhibition: An Intelligent Route Discovery Framework for Load-Balancing in Wireless Networks	2009
8.	Bronze medal	National Research and Innovation Competition (NRIC): Tsunami Detection Using Radar	2008

9. Gold medal	Invention, Research and Innovation Exhibition: Enhanced Micro-Mobility Solution in Multicast-Based Mobile IPv6 with Enhanced Security	2008
10. Bronze medal	Invention, Research and Innovation Exhibition: Secured Route Optimization in Mobile IPv6 Networks	2007
11. Bronze medal	Invention, Research and Innovation Exhibition: Laptop Security Using Radio Frequency Identifications (RFID),	2007
12. Bronze medal	Research Innovation and Commercialization Exhibition, Faculty of Engineering Universiti Putra Malaysia	2006

18. PROFESSIONAL MEMBERSHIP

1. Chair	IEEE Graduate of the last decade: Malaysia	2008
2. Senior Member	Institute of Electronic and Electrical Engineering	2006 - now
3. Member	IEEE Aerospace and Electronic System, Chapter	
4. Executive Member	IEEE Graduate of the last decade: Malaysia	2007
5. Member	European Microwave Association	2007
6. Member	Malaysian Society for Engineering and Technology	2008 - now
7. Member	International Association of Engineers (IAENG)	2008 - now
8. Member	The Institution of Engineering and Technology (IET)	2002 - now

19. CO-CURRICULAR/STUDENT ACTIVITIES AND ENGAGEMENT

1. Committee member and Advisor	MSC Malaysia-IHL Business Plan Competition,	2007
2. Advisor	Student (C&C Systems Engineering) Industrial activity	2011
3. Officer (Football: Kuala Lumpur)	National Paralimpiad Competition	2006
4. Board of Advisor	QGIIIS Integrated School	2015 – 2016
5. Executive Committee member	WAMY, Malaysia	2015
6. Secretary	Alam Sutera Association	2015 – 2016