

AZREMI ABDULLAH AL-HADI



Associate Professor



School of Computer and Communication Engineering
Universiti Malaysia Perlis (UniMAP)
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26th of August 1980 @ Michigan, United States of America.
Married to Norsuria Mahmed, and blessed with two children.



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[facebook.com/azremi](https://www.facebook.com/azremi)



Azremi Abdullah Al-Hadi



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Azremi Abdullah Al-Hadi (S'13 M'13 SM'14) was born on August 26 in Michigan, United States of America. He received the Master of Science degree in communication engineering from Birmingham University, United Kingdom in 2004 and the Doctor of Science in Technology degree from Aalto University, Finland in 2013. His current research interests include design and performance evaluation of multi-element antennas, mobile terminal antennas and their user interactions, and wireless propagation.

He is currently working as an Associate Professor and holds position as Dean of the School of Computer and Communication Engineering, Universiti Malaysia Perlis (UniMAP). He has been with the school since 2002. He is active in volunteering work with IEEE Malaysia Section, acting as the Senior Member of IEEE, Vice Chair of the IEEE Malaysia Antenna Propagation / Microwave Theory techniques / Electromagnetic Compatibility (AP/MTT/EMC) Joint Chapter and Past Counselor for the IEEE UniMAP Student Branch. He is the Chartered Engineer of the Institution of Engineering and Technology (IET), UK, the member of the Board of Engineers Malaysia (BEM), Malaysia and graduate technologist of the Malaysia Board of Technologist (MBOT), Malaysia.

Dr. Azremi was the recipient of the Best Student Paper Award presented at the 5th Loughborough Antennas and Propagation Conference (LAPC 2009), the CST University Publication Award in 2011, and the Best Paper and Excellence Awards from IEEE Malaysia AP/MTT/EMC Joint Chapter in 2018 and 2019, respectively. During his appointment as the Vice Chair, the chapter has won the 2020 Outstanding Chapter Award by the IEEE Antennas and Propagation Society.



AREA OF INTEREST

- Mobile terminal antennas.
- Multi-element antenna system.
- Antenna performance evaluation and user interaction.
- Antenna measurement techniques.
- Diversity and Multiple-Input Multiple-Output (MIMO) Systems.
- Mobile propagation.



QUALIFICATION

Nov 2013	Aalto University, Finland	Doctor of Science (Technology) in Radio Engineering <i>Thesis: Multi-element Antennas for Mobile Communication Systems: Design, Evaluation and User Interactions</i>
Dec 2004	University of Birmingham, UK.	Master of Science in Communication Engineering <i>Thesis: Reverberation Chamber for Accurate Efficiency Measurement of Small Antennas</i>
Aug 2002	University of Science Malaysia	Bachelor of Engineering in Electrical and Electronics <i>Thesis: Adaptive Linear Controller for Time Varying System</i>
Feb 1999	University of Science Malaysia	Matriculation Certificate



EARLY EDUCATION

- 1993 – 1997 Tengku Abdullah Science Secondary School, Raub, Pahang.
 1987 – 1992 Bandar Baru Bangi Primary School, Selangor.



AWARD AND RECOGNITION

International Awards

- 2020 **2020 Outstanding Chapter Award** presented by the IEEE Antennas and Propagation Society (APS) during the 2020 IEEE International Symposium on Antennas and Propagation and North American Radio Science Meeting, Montreal, Quebec, Canada, 5-10 July 2020. Appointment as Vice-Chair. Awarded on July 9, 2020.
- 2015 **Special Award** presented by The National Research Council of Thailand on the occasion of 2015 Kaohsiung International Invention and Design Expo (KIDE 2015), Kaohsiung, Taiwan, 4-6 December 2015 for the product entitled "Massive MIMO Terminal Antennas for Future 5G Applications". Awarded on Dec. 6, 2015.
- 2011 Computer Simulation Technology (CST) **University Publication Award**, for the publication entitled "Setup and Results of Pyramidal Microwave Absorbers using Rice Husks", *Progress in Electromagnetic Research (PIER)*, vol. 111. pp. 141-161, 2010. Awarded on Dec. 8, 2011.
- 2009 **Best Student Paper Award** at 2009 Loughborough Antennas and Propagation Conference, for the publication entitled "Five-Element Inverted-F Array Antenna for MIMO Communications and Radio Direction Finding on Mobile Terminal", in Proceedings of the Loughborough Antenna and Propagation Conference (LAPC 2009). Nov. 16-17, 2011, Loughborough, UK., pp. 557-560. Awarded on Nov. 17, 2009

National Awards

- 2019 **IEEE AP/MTT/EMC Malaysia Joint Chapter Best Paper Award 2019**, presented during 2020 IEEE AP/MTT/EMC Annual Grand Meeting for paper entitled "Deployable Linear-to-Circular Polarizer using PDMS Based on Unloaded and Loaded Circular FSS Arrays for Pico-Satellites". Awarded on January 18, 2020.
- 2019 **IEEE AP/MTT/EMC Malaysia Joint Chapter Best Paper Award 2019**, presented during 2020 IEEE AP/MTT/EMC Annual Grand Meeting for paper entitled "Recent Advancements in User Effect Mitigation for Mobile Terminal Antennas: A Review". Awarded on January 18, 2020.
- 2018 **IEEE AP/MTT/EMC Malaysia Joint Chapter Excellent Award 2018**, presented during 2019 IEEE AP/MTT/EMC Annual Grand Meeting for paper entitled "Five-Element Inverted -F Antenna Array for MIMO Communications and Radio Direction Finding on Mobile Terminal". Awarded on January 19, 2019.

Institutional Awards

- 2017 **Young Scientist Award**, Universiti Malaysia Perlis (UniMAP)
- 2015 **Excellent Research Award**, Universiti Malaysia Perlis (UniMAP)
- 2014 **Excellent Service Award**, Universiti Malaysia Perlis (UniMAP)
- 2011 **Excellent Research Award**, Universiti Malaysia Perlis (UniMAP)
- 2002 **Excellent Service Special Award**, Kolej Universiti Kej. Utara Malaysia (KUKUM)



PROFESSIONAL MEMBERSHIP

- 2018 **Graduate Technologist**, Malaysia Board of Technologist (MBOT), Malaysia, Reg. No.: GT18050630 (effective from 25.4.2018). Field: Telecommunication and Broadcasting
- 2017 **Associate Member**, Malaysian Technical Standards Forum Bhd (MTSFB). Working Group: Fixed and Wireless Terminal (FWT WG), Internet of Things (IoT WG). Reg No.: MTSFB/AM/82-17.
- 2016 **Chartered Engineer**, The Institution of Engineering and Technology (IET), United Kingdom, Reg. No.: 634655 (effective from 27.7.2016)
- 2015 **Society Member**, The IEEE Antennas and Propagation Society, Reg. No.: 92612513 (effective from 1.1.2015)
- 2014 **Senior Member**, The Institute of Electrical and Electronics Engineers (IEEE) Malaysia Section, Reg. No.: 92612513 (effective from 22.8.2014)
- 2014 **Member**, The Institution of Engineering and Technology (IET), United Kingdom, Reg. No.: 1100352735 (effective from 28.5.2014)
- 2014 **Member**, IEEE Young Professionals, The Institute of Electrical and Electronics Engineers (IEEE) Malaysia Section, Reg. No.: 92612513 (effective from 1.1.2014)
- 2014 **Member**, The Institute of Electrical and Electronics Engineers (IEEE) Malaysia Section, Reg. No.: 92612513 (effective from 5.1.2014)

- 2013 **Graduate Member**, The Institute of Electrical and Electronics Engineers (IEEE) Finland Section, Reg. No.: 92612513 (effective from 13.3.2013)
- 2005 **Graduate Engineer**, Board of Engineers (BEM), Malaysia, Reg. No.: GE46047R (effective from 27.4.2005)



CAREER HISTORY

- 1 Mar 2017 – present **Dean**, School of Computer and Communication Engineering, Universiti Malaysia Perlis (UniMAP)
- 1 Sept 2016 – present **Associate Professor**, Universiti Malaysia Perlis (UniMAP)
- 1 Sept 2014 – 28 Feb 2017 **Deputy Dean (Mixed-mode and Coursework)**, Center for Graduate Studies, Universiti Malaysia Perlis (UniMAP)
- 1 June 2010 – 31 Aug 2016 **Senior Lecturer**, Universiti Malaysia Perlis (UniMAP)
- 1 Nov 2012 – 10 Nov 2013 **Researcher**, Aalto University, Finland
- 15 Nov 2008 – 15 Nov 2013 **Study Leave**, Aalto University, Finland
- 1 Mar 2007 – 30 Sept 2008 **Program Chairperson – Communication Engineering**, Universiti Malaysia Perlis (UniMAP)
- 17 Nov 2004 – 31 May 2010 **University Lecturer**, Universiti Malaysia Perlis (UniMAP)
- 22 Sept 2003 – 31 Aug 2004 **Study Leave (Fellow)**, Birmingham University, United Kingdom
- 20 May 2002 – 21 Sept 2003 **Vocational Training Officer**, Kolej Universiti Kejuruteraan Utara Malaysia (KUKUM)



TEACHING SUBJECTS

Academic Session 2002/03	First Semester	Electronic Devices
	Second Semester	Analogue Electronics
Academic Session 2003/04	First Semester	Engineering Skills I
	Second Semester	Engineering Skills II
Academic Session 2004/05	Second Semester	Electromagnetic Theory
Academic Session 2005/06	First Semester	Signals and Systems
	Second Semester	Electromagnetic Theory
Academic Session 2006/07	First Semester	Antenna and Propagation
	Second Semester	Electromagnetic Theory
Academic Session 2007/08	First Semester	Antenna and Propagation
	Second Semester	Communication System
Academic Session 2013/14	Second Semester	Mobile Communication System & Engineers in Society
Academic Session 2014/15	First Semester	Radar Engineering
	Second Semester	Mobile Communication System
Academic Session 2015/16	First Semester	Radar Engineering
	Second Semester	Electromagnetic Theory
Academic Session 2016/17	First Semester	Optical Communication Systems
	Second Semester	Electromagnetic Theory
Academic Session 2017/18	First Semester	Radar Engineering
	Second Semester	Digital Communication Engineering
Academic Session 2018/19	First Semester	Radar Engineering
	Second Semester	Electromagnetic Theory
Academic Session 2019/2020	First Semester	Research Methodology (Postgraduate)
	Second Semester	Research Methodology (Postgraduate)



SIGNIFICANT CONTRIBUTION TO UNIVERSITY

ADMINISTRATION

Institutional

- 2019 **Dean**, School of Computer and Communication Engineering
- Initiate, manage, coordinate and set up three academies for three engineering programs in the School of Computer and Communication Engineering UniMAP, namely as 'UniMAP-National Instrument Academy', 'UniMAP-Huawei ICT Academy' and 'UniMAP-Keysight RF Microwave Certification Program'

2018	Dean, School of Computer and Communication Engineering	Manage and coordinate accreditation of three bachelor of engineering programs, and one of them (Bachelor of Computer Network Engineering) has become the first UniMAP program accredited 6-years by Engineering Accreditation Council (EAC).
2014	Deputy Dean, Center for Graduate Studies	Manage and coordinate all MSc mixed-mode programs for accreditation purpose and all of them have been accredited by Malaysian Qualification Agency (MQA).
2008	Program Chairperson – Communication Engineering	Manage and coordinate Bachelor of Communication Engineering program for accreditation purpose, whereby Malaysia has been approved and included in Washington Accord (WA) signatories.
2002	Teaching Engineer	Initiate, manage and set up two laboratories (fundamental of electronic engineering) for first intake of KUKUM in May 2002.

RESEARCH

National

2020	Researcher, Advanced Communication Engineering (ACE) Center of Excellence	Initiate and set up 'Motorola Solutions-UniMAP STEM Wireless Laboratory'. The first STEM laboratory by Motorola Solutions in Malaysia.
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RESEARCH GRANT

PRINCIPLE RESEARCHER / PROJECT LEADER: RM 890,794.00

International Research Grants: € 26,440.00 ≈ RM 107,100.00

2012	Travel Grant for European School of Antennas (ESoA) course, entitled "Propagation and MIMO". Funded by the European Antennas Virtual Center of Excellence (VCE). June 2012. € 440.00.
2012	Ella and Georg Ehrnrooth Foundation Grant entitled "Multi-antenna Structures for Radio Direction Finding and Communications: Design and User Interactions". May 2012. € 11,000.00.
2011	Ella and Georg Ehrnrooth Foundation Grant entitled "High Performance Multi-antenna Solutions for Future Mobile Communication Systems". May 2011. € 9,000.00.
2010	Ella and Georg Ehrnrooth Foundation Grant entitled "High Performance Antenna Solutions for Future Mobile Communication Systems". May 2010. € 6,000.00.

Governmental Research Grants: RM 773,694.00

2019	Fundamental Research Grant Scheme (FRGS) fund for research grant entitled "A New Approach in Characterizing Number of Antenna Elements in Optimized Massive Multiple-Input Multiple-Output (MIMO) Mobile Terminals". RM 92,200.00.
2015	SCIENCEFUND by MOSTI for research grant entitled "Energy-Efficient Mobile Terminal Antennas for Green 5G Wireless Communication Networks". RM 368,094.00
2014	Fundamental Research Grant Scheme (FRGS) fund for research grant entitled "Novel Decoupling Technique to Reduce Mutual Coupling in Multi-antenna Mobile Terminals for High Accuracy Localization". RM 75,900.00.
2007	Fundamental Research Grant Scheme (FRGS) fund for research grant entitled "Design and Development of Microstrip Patch Array Antenna for WLAN Applications". RM 13,500.00
2007	SCIENCEFUND by MOSTI for research grant entitled "Design and Development of a Portable Anechoic Chamber for Microwave Antenna Measurements". RM 224,000.00

Institutional Research Grants: RM 10,000.00

2015	UniMAP Incentive Journal (2015) Grant. RM 5,000.00.
2014	UniMAP Incentive Journal (2013) Grant. RM 5,000.00.

CO – RESEARCHER / PROJECT MEMBER: RM 2,270,599.87

Governmental Research Grants: RM 1,372,110.00

2018	Fundamental Research Grant Scheme (FRGS) fund for research grant entitled "Multi-Armed Bandit Approach for Proactive Energy Trading and Management in Green Cloud-RANs". RM 74,810.00.
2018	Collaborative Research Grant fund entitled "Characterization of Beamforming Network and Antenna at 28GHz using Waveguide Technology". RM 160,000.00
2015	Prototype Research Grant Scheme (PRGS) fund for research grant entitled "A Deployable Antenna System for CubeSat Applications". RM 107,000.00

- 2015 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "A Study of Microwave Excitation Localized Surface Plasmons (MLSPs) on Metallic Nanorods New Platform to Detect Asymptomatic (non-symptom) Cancerous Diseases". **RM 120,200.00.**
- 2015 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "A Fundamental Study on the Applicability using Flexible 3D Frequency Selective Surface for Structural Health Monitoring System". **RM 86,100.00.**
- 2015 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "Fundamental Modeling and Characterization of Wearable Flexible Fluidic Antennas (WFFA) using Characteristic Modes". **RM 60,400.00.**
- 2015 **Prototype Research Grant Scheme (PRGS)** fund for research grant entitled "Fabrication of Hand-held Device for Symptomatic (before symptom appear) Microwave Imaging Lung Tumour Detection (MILTD) Using Microwave Inverse Scattering Nanomesh Technique (MISN)". **RM 150,000.00**
- 2014 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "Improving Wireless Power Transmission Technique for Low Cost Rechargeable Cardiac Pacemaker Circuit". **RM 118,100.00.**
- 2014 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "Sensitivity Enhancement of Split-Ring-Array Responses using Mie-Nicolson-Ross-Weir approach for High Speed Communication". **RM 83,300.00.**
- 2007 **SCIENCEFUND** by MOSTI for research grant entitled "Development of a Universal Modulator for Software Defined Radio Communication System". **RM 335,200.00**
- 2007 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "A Study on Effect of Multilayer Ceramic Based Substrate to the Frequency Selection of a Tuned Circuit for Wireless Application". **RM 30,000.00.**
- 2007 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "A Study on Signal Amplification of Ceramic Based Interconnection for Wireless Application". **RM 30,000.00.**
- 2007 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "A Correlation Study Utilising Novel Design Techniques and Distinct Materials Designed to Evaluate Folded Meander Line Microstrip Antennas". **RM 50,000.00**
- 2007 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "Design and Modeling an Extension of Smart Antenna (MIMO System) for Cellular Communications". **RM 13,500.00**
- 2007 **Fundamental Research Grant Scheme (FRGS)** fund for research grant entitled "Planar Inverted F Antenna Mechanism of Operation for Wireless Sensor Network Application". **RM 13,500.00**

■ Industrial Research Grants: RM 833,489.47

- 2020 **Flextronics (Penang) Sdn Bhd** fund for research grant entitled "Smart Parking System". **RM98,960.40**
- 2019 **Flextronics (Penang) Sdn Bhd** fund for research grant entitled "Biometric Facial Recognition". **RM 27,940.00**
- 2017 **CREST** fund for research grant entitled "Vehicle-to-Vehicle (V2V) and Vehicle-to-Infrastructure (V2I) Communication for Smart City's Intelligent Transportation System (ITS)". **RM 518,000.00**
- 2015 **CREST** fund for research grant entitled "Super Wi-Fi Utilization from TV White Space Spectrum (TVWS)". **RM 188,589.47**

■ Institutional Research Grants: RM 65,000.00

- 2015 **Special Research Grant** fund entitled "Implementing Information and Communication Technology (ICT) in Construction Industry". **RM 45,000.00**
- 2005 **Short Term Grant** fund entitled "Simulated Radar Emission Environment". **RM 20,000.00**



RESEARCH EXHIBITION

■ International Exhibition

2019	Co – Researcher	E-Attendance for University Courses	PIP 2019, Sintok, Kedah	Silver
2015	Principle Researcher	Massive MIMO Terminal Antennas for Future 5G Applications	KIDE, Taiwan	Gold
2015	Co – Researcher	Keystroke Dynamics for Construction Industry: A Novel Technique to determine the Working Validity Period of Construction Workers	KIDE, Taiwan	Silver
2015	Co – Researcher	Gender Recognition: A Novel Soft Biometric Trait for Keystroke Dynamics Biometric Systems	IWIS, Poland	Gold
2015	Principle Researcher	8-CCE: 8-port Antenna for Future 5G Mobile Terminal	ITEX, K. Lumpur	Silver
2011	Co – Researcher	1Antenna: A Novel Antenna for Wireless Applications	SIIF, Korea	Gold
2007	Principle Researcher	Educational Antenna Training Set for Pattern Plotting and Analysis using Basic Antenna Shapes	ITEX, K. Lumpur	Silver

■ National Exhibition

2009	Co – Researcher	F2: A Novel Planar Inverted-F Antenna for Wireless Application	MTE	Silver
2009	Co – Researcher	1Antenna: A Novel Antenna for Wireless Applications	PeCIPTA	Silver
2008	Principle Researcher	A Compact Planar & Highly Efficient Antenna for WLAN Application	MTE	Bronze
2007	Principle Researcher	Antenna Training Set using Basic Microstrip Antenna Shapes for Education Purposes	PeCIPTA	None

■ Institutional Exhibition

2018	Principle Researcher	Environmentally Robust Dual-Polarized Antenna in Mobile Terminal		Silver
2018	Principle Researcher	AntPP-MCS: Antenna Performance Predictor for Mobile Communication System		Bronze
2018	Co – Researcher	SCCE Research Management System		Silver
2018	Project Supervisor	Smartbin Waste Management System		Bronze
2018	Project Supervisor	Temperature and Vibration Monitoring System for Smart Manufacturing Application		Silver
2016	Co – Researcher	A Wireless Remote Sitting Posture Monitoring System using Textile Sensors		Silver
2015	Principle Researcher	8-CCE: 8-port Antenna for Future 5G Mobile Terminal		Gold
2009	Co – Researcher	A Wideband Fractal PIFA for Wireless Communication Application		Gold
2009	Co – Researcher	A Broadband Planar Inverted F Antenna for Outdoor WLAN Application		Gold
2008	Final Year Project Supervisor	Smart Direction Finder using WLAN Antenna		Gold
2008	Principle Researcher	A Compact Planar & Highly Efficient Antenna for WLAN Application		Silver
2006	Principle Researcher	Basic Microstrip Antenna Shapes for 3G/UMTS Wireless Application		Bronze



PATENT & COPYRIGHT

2018	MATLAB Tool for Performance Evaluation of MIMO Antennas. (UK Copyright No. 284725919): A. A. Al-Hadi , Ahmed. Elshirkasi, P. J. Soh, M.F. Mansor. Registered: 15 th December 2018.	REGISTERED
2018	A Deployable Reflectarray Antenna for Pico-Satellites (PI No.: 2018001021): Soh Ping Jack, Abdul Halim Lokman, Saidatul Norlyana Azemi, A. Abdullah Al-Hadi , Mohd Faizal Jamlos. Filed: 21 st June 2018.	FILED
2018	An Antenna Assembly for Reducing Mutual Coupling and Radiation Loss of a Device (PI No.: 2018701774): A. Abdullah Al-Hadi , Rizwan Khan, P.J. Soh. Filed: 3 rd May 2018.	FILED
2016	Sitting Posture Monitoring Device using Textile Pressure Sensors. (UK Copyright No. 284700597): P.J. Soh, M. N. Ramli, M. E. A. Aziz, A. A. Al-Hadi , M. F. Jamlos, M. I. Omar. Registered: 25 th Jan 2016.	REGISTERED
2015	A Multiple Port Antenna Array of a Mobile Terminal (PI No.: 2015001683): A. Abdullah Al-Hadi , P.J. Soh, M.F. Jamlos. Filed: 29 th June 2015.	FILED
2011	Omni-directional Antenna (PI No.: 2011002482): P.J. Soh, N.A. Saidatul, A.A.H. Azremi , R.B. Ahmad. Filed: 31 st May 2011.	FILED
2009	A Dielectric Loaded Helical Antenna for WLAN Applications (MY – 152594, PI No.: 20091543): P.J. Soh, A.A.H. Azremi , A.A.M. Ezanuddin, R.B. Ahmad. Filed: 16 th April 2009. Granted: 31 st October 2014, Duration of Patent: 16 th April 2009 until 16 th April 2029.	GRANTED



EDITORSHIP / REVIEWERSHIP

■ Journal Articles

- IEEE Vehicular Technology Magazine
- IEEE Access
- IEEE Transactions on Antennas and Propagation

- IEEE Transactions on Electromagnetic Compatibility
- IEEE Transactions on Circuits and Systems II: Express Briefs
- IEEE Antennas and Wireless Propagation Letters
- IET Electronic Letters
- IET Microwaves, Antennas and Propagation
- International Journal of Communication Systems
- International Journal of Antennas and Propagation
- International Journal of RF and Microwave Computer-Aided Engineering
- Microwave Optical Technology Letters
- ELSEVIER International Journal of Engineering Science and Technology
- ELSEVIER AEU International Journal of Electronics and Communication
- Journal of Electromagnetic Waves and Applications.
- Frequenz: Journal of RF-Engineering and Telecommunication
- Jurnal Teknologi.
- Progress in Electromagnetic Research
- Editorial Board: 2007 UniMAP eXPLORE Magazine

International Conference Articles

- 2019 International Conference on Radar, Antenna, Microwave, Electronics, and Telecommunications (ICRAMET 2019).
- 2018 IEEE International Conference on RF & Microwave (RFM 2018)
- Asia-Pacific Microwave Conference 2017 (APMC 2017).
- International Symposium on Antennas and Propagation (ISAP) 2017, 2018.
- 1st International Joint Conference on Computer, Electrical and Electronics Engineering 2017 (IJCCEE 2017).
- International Conference on Emerging Electronic Solutions for IoT 2017 (ICEESI 2017).
- International Conference on Electrical and Electronic Engineering 2017 (IC3E 2017).
- IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2016).
- International Conference on Advances in Electrical, Electronic and Systems Engineering (ICAEESE 2016).
- European Conference on Antennas and Propagation (EuCAP 2017).
- 6th International Conference on Science and Technology (ICSTIE 2016).
- IEEE International Conference on Intelligent and Automation Systems (ICIAS) 2007, 2012, 2014, 2016, 2018.
- International Conference on Advanced Material Engineering & Technology (ICAMET) 2014, 2015.
- The 9th International Conference on Robotics, Vision, Signal Processing and Power Applications (ROVISIP) 2016.
- 2015 IEEE 12th Malaysia International Conference on Communications (MICC 2015).
- 2014 IEEE 2nd International Symposium on Telecommunication Technologies (ISTT 2014).
- IEEE International Conference on Electronic Design (ICED) 2014, 2016, 2018, 2020.

National Conference Articles

- Malaysian Technical Universities Conference on Engineering and Technology (MUCET) 2015.
- National Conference of TVET Innovation (NCTVETi 2015).
- The 5th IEEE Symposium on Image Processing, Image Analysis and Real Time Imaging (IPIARTI 2014) and The 2nd IEEE Symposium on Acoustics, Speech and Signal Processing (SASSP 2014).
- 2006 Mini Conference on Antenna Design (Chief Editor).



SUPERVISION

Doctor of Philosophy

2020	Main Supervisor	Design and Optimization of Small Cell Base Station for High Speed Radio Access Network in Smart Campus	Achmad Mardiansyah	On-Going
2018	Co – Supervisor	Body-Worn Flexible Antennas for Location Tracking Applications	Rais Ahmad Sheikh	On-Going
2018	Co – Supervisor	Flexible Linear-to-Circular Polarizer for S-Band Cubesat Application	Hidayath Mirza	GRADUATED
2018	Co – Supervisor	Design and Characterization of Flexible Textile Antennas using Characteristic Mode Analysis (CMA)	Bashar Bahaa Noori Qas Elias	On-Going
2017	Main Supervisor	Performance Prediction of Multiple Antennas in Multipath Environment	Ahmed Elshirkasi	On-Going
2016	Main Supervisor	Ground Plane and User Effect Mitigation for Mobile Terminal Antennas	Rizwan Khan	GRADUATED

2015	Main Supervisor	Adaptive Matching Network in Antenna-User Proximity Sensor System for 5G Terminal	Che Muhammad Nor Che Isa	On-Going
2015	Main Supervisor	Adaptive Enhancement Techniques in MIMO System for 5G	Surentiran Padmanathan	On-Going
2015	Main Supervisor	Mutual Coupling Compensation Techniques in Multi-antenna Mobile Terminals	Cheor Wai Loon	On-Going
2016	Co – Supervisor	Development of PD Detection and Localization Techniques in HV Substation using HF Mobile Antenna	Sharulnizam Mohd Mukhtar	On-Going
2015	Co – Supervisor	An Integrated Reconfigurable RF MEMS Antenna using Artificial Magnetic Conductor and Defected Ground Structure for 5G Applications	Norfatihah Bahari	GRADUATED

■ Master of Science

2019	Co – Supervisor	The Optimisation of PCB Transmission Line Design for 40 Gbps Signal Transmission	Yee Chang Fei	On-Going
2017	Main Supervisor	Design and Evaluation of MIMO Wearable Antenna for 5G	Mushrif Saidin	On-Going
2015	Co – Supervisor	Performance Analysis of Textile IR-UWB Antenna to Resolve Body Coupling Issue for WBAN Localization Network	Nur Farahiyah Mohamad Aun	On-Going
2011	Co – Supervisor	Design and Development of Pyramidal Microwave Absorbers using Agricultural Waste	Nornikman Hassan	GRADUATED
2009	Co – Supervisor	Development of Fractal PIFA for Mobile Phone Applications	Saidatul Norlyana Azemi	GRADUATED

■ Visiting Researcher / Postdoctoral / Internship

2020	Main Supervisor	Postdoctoral Researcher (Project: Design and Development of Antennas for Automotive Application)	Dr. Ojo Rasheed	1st April 2020 – 31st March 2021
2020	Main Supervisor	Diploma Electronic Engineering (Communication) from Politeknik Sultan Abdul Halim Mu'adzam Shah	Mastura Baharin	9th December 2019 – 26th April 2020
2018	Main Supervisor	Visiting Researcher from October 6 University, Egypt (Project: Phased Array Antenna Design)	Dr. Mohamed Elhefnawy	6th September 2018 – 22nd September 2018

■ Professional Membership

2020	Referee	IEEE Senior Membership	Lee Yeng Seng	SUBMITTED
2019	Referee	IEEE Senior Membership	Siti Zuraidah Ibrahim	APPROVED
2019	Supporter / Referee	IET Chartered Engineer	Hasliza A. Rahim	PROMOTED
2019	Referee	IEEE Senior Membership	Fauziahanim Che Seman	APPROVED
2018	Referee	IEEE Senior Membership	Faizah Abu bakar	APPROVED
2018	Referee	IEEE Senior Membership	Ahmed Hani	APPROVED
2018	Referee	IEEE Senior Membership	Kamilia Kamardin	APPROVED
2018	Referee	IEEE Senior Membership	Wee Fwen Hoon	APPROVED
2017	Referee	IEEE Senior Membership	Ruslinda A Rahim	APPROVED
2017	Supporter / Referee	IET Chartered Engineer	Junita Mohd Nordin	PROMOTED
2016	Supporter / Referee	IET Chartered Engineer	Muzammil Jusoh	PROMOTED
2016	Referee	IEEE Senior Membership	Razaidi Hussin	APPROVED
2015	Referee	IEEE Senior Membership	Sohiful Anuar Zainol Murad	APPROVED



ACADEMIC / RESEARCH RECOGNITION

MEMBERSHIP APPOINTMENT

National

2020	Member	TVET IR4.0 Technical Committee Ministry of Education
2018	Member	Malaysian Council of ICT Deans (MADICT)
2018	Member	Malaysian Council of Engineering Deans (MCED)
2018	Member	Interagency Working Committee on the Health Effects of Non-ionising Radiation by Ministry of Health Malaysia
2017	Member	2u2i Development Committee for Software Engineering Program
2016	Vice-Chair	Radio-Frequency Working Group under Technical Committee on Electromagnetic Field for Malaysian Standard, by Malaysia Standard Department
2016	Permanent Representative	Technical Committee on Electromagnetic Field for Malaysian Standard, by Malaysia Standard Department

Institutional

2020	Deputy Chairman	ICT Technical Committee
2019	Chairman	ICT Technical Committee
2019	Member	Smart Campus Steering Committee
2018	Member	ICT Steering Committee
2018	Member	Academic Mobile Apps Steering Committee

PROGRAM ADVISOR

National

2020	Program Advisor	Program Advisor for Certificate of Computer System and Network, Kolej Komuniti Arau, Perlis
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PROGRAM AUDITOR

National

2016	Program Auditor	Panel Auditor for Malaysian Qualification Agency (MQA) in the field of communication engineering, electrical and electronics engineering for 3 years (2016-2018)
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Institutional

2018	Internal Audit Panel	Internal auditor for EAC accreditation, for Bachelor of Engineering in Electronic Engineering with Honors
2017	Internal Audit Panel	Internal auditor for MQA full accreditation, for Bachelor of Engineering Technology in Electronics (Integrated Electronic)
2016	Internal Audit Panel	Internal auditor for EAC accreditation, for Bachelor of Engineering (Honours) in Electrical System Engineering
2016	Internal Audit Panel	Internal auditor for MQA full accreditation, for Bachelor of Engineering Technology in Electronics (Electronic Network Design)
2016	Internal Audit Panel	Internal auditor for MQA full accreditation, for Bachelor of Engineering Technology in Chemical (Industrial Biotechnology)
2015	Internal Audit Panel	Internal auditor for MQA full accreditation, for Master of Science (MSc) programs by mixed-mode
2015	Facilitator	Academic review workshop for Bachelor of Engineering Technology in Electronics

BOOK / MANUSCRIPT EDITOR / EVALUATOR

National

2019	Manuscript Examiner	"Komunikasi Cahaya Dunia Kecil"	Universiti Kebangsaan Malaysia
2018	Manuscript Examiner	"Inovasi Pengurusan Akademik dalam Program Kejuruteraan"	Universiti Kebangsaan Malaysia

TENURE TRACK EVALUATOR

International

2020	External Foreign Experts	Placement of 'Associate Professor in Office Grade (OG) III'	COMSAT University Islamabad, Pakistan
2019	External Referee	Associate Professorship promotion	Universiti Kebangsaan Malaysia

2019	External Foreign Experts	Placement of 'Associate Professor on Permanent (Full) Tenure'	COMSAT University Islamabad, Pakistan
2019	External Foreign Experts	Placement of 'Associate Professor in Office Grade (OG) III'	COMSAT University Islamabad, Pakistan

THESIS EXAMINER

National

2019	MEng External Examiner	Impact of Cable Bleeding towards Cable Characteristics and Performance in VDSL2 and G.Fast Technologies	Che Ku Afifah Che Ku Alam	Universiti Tun Hussein Onn Malaysia
2019	PhD External Examiner	Design of Microwave Radiating Diplexer using Substrate Integrated Waveguide (SIW) Technique	Norhashima Baba	Universiti Teknologi Mara
2018	MSc External Examiner	Defected Waveguide Structure with Circular Monopole Antenna for Ultrawideband Systems	Chin Shu Jia	Universiti Teknikal Malaysia Melaka
2017	MPhil External Examiner	Pattern Reconfigurable Microstrip Patch Array Antenna at 28 GHz	Low Ching You	Universiti Teknologi Malaysia
2016	MSc External Examiner	Multiband Monopole Antenna with Defected Parasitic Structure for Wireless Communication Systems	Mohamad Hafize Ramli	Universiti Teknikal Malaysia Melaka

Institutional

2016	Ph.D Internal Examiner	Characterization of Microwave Absorber using Rice Husk/Carbon Nanotube Composites	Lee Yeng Seng
2016	Ph.D Pre-viva Examiner	Development of GPR System using High Gain Wideband Antenna and Microwave Imaging Technique for Buried Object Detection	Mohd Nazri A Karim
2014	Ph.D Internal Examiner	A New Flexible Cross Correlation (FCC) Code for Optical CDMA Systems	Rashidi Che Beson
2014	M.Sc Internal Examiner	Hybrid Functionality in Downlink of 4G Long Term Evolution (LTE)	Normaliza Omar
2014	M.Sc / Ph.D Conversion Examiner	Development of Wideband Frequency Microwave Absorber using Carbon Nanotube / Rice Husk Composites.	Lee Yeng Seng
2014	M.Sc / Ph.D Conversion Examiner	Design and Development of Microwave Absorber using Sugarcane Bagasse	Liyana Zahid

INVITED PRESENTATION

International

2019	Invited Speaker	'Mutual Coupling Compensation using Defected Ground Structure for Low-band LTE Mobile Terminals' presented at International Symposium on Antennas and Propagation (ISAP 2019), Oct 30, 2019, Xi'an, China.
2019	Invited Speaker	'Improvement of a Circular Microstrip Patch Antenna using a Radome Based on Split Ring Resonators', presented at International Symposium on Antennas and Propagation (ISAP 2019), Oct 30, 2019, Xi'an, China.
2018	Keynote Speaker	'Scientific Journal: Database and Criteria to Publish' and 'Building a World Class University Ranking: UniMAP Experience', presented at International Research Publication Conference IrePC 2018, Hadhramout University, Yemen, 24.4.2018.
2017	Research Seminar	'Multiple Antennas in Realistic Environment: Threat or Opportunities?' presented at 1st Thai-Malaysian Workshop on Antennas and Propagation, King Mongkut University of Technology North Bangkok, 7.9.2017.
2014	Tutorial	'Antennas for Small MIMO Terminals' presented at International Symposium on Telecommunication Technologies, ISTT 2014

National

2020	Research Webinar	'Incorporating Large Number of Antennas into a Terminal: Issues and Challenges' presented at the 4th SCCE Research Sharing Knowledge Webinar, 19.6.2020. Joint organization between School of Computer and Communication Engineering UniMAP, IEEE Malaysia AP/MTT/EMC Joint Chapter, IEEE UniMAP Student Branch and Advanced Communication Engineering (ACE) Center of Excellence
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- 2018 Research Seminar 'Antennas and Its Interaction with Human: Challenges and Potential Solutions' presented at Seminar Teknikal UTeM@CETRI, Universiti Teknikal Malaysia Melaka, 17.10.2018.
- 2018 Forum Panel 'Diskusi Sembang Santai IR4.0' during National Innovation and Invention Competition Through Exhibition 2018 (iCompEx'18), Politeknik Sultan Abdul Halim Mu'adzam Shah, Jitra, Kedah. 22.3.2018
- 2018 Industrial Workshop 'Antennas and Its Interaction with Human Body' presented at CST Workshop 2018, Eastin Hotel Penang, 24.1.2018

■ Institutional

- 2018 Workshop 'Concerns in Supervision' for Postgraduate Supervision Workshop 1/2018, 15.5.2018
- 2017 Workshop 'Concerns in Supervision' for Postgraduate Supervision Workshop 1/2017, 19.12.2017
- 2017 Workshop Workshop on 'Introduction to LATEX', 9-10.2.2017
- 2016 Workshop Workshop on 'Introduction to LATEX', 30.3.2016
- 2016 Seminar 'Terminal Antennas for the Future', 3.2.2016

■ CONFERENCE SESSION CHAIR

■ International

- 2019 2019 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2019), 25-27.11.2019
- 2015 IEEE International RF and Microwave Conference (RFM 2015), 14-16.12.2015
- 2015 4th International Conference on Advanced Material Engineering & Technology (ICAMET 2015), 4-5.12.2015
- 2014 International Symposium on Telecommunication Technologies, ISTT 2014
- 2014 International Conference on Electronic Design, ICED 2014

■ National

- 2014 The 5th IEEE Symposium on Image Processing, Image Analysis and Real Time Imaging (IPIARTI 2014) and The 2nd IEEE Symposium on Acoustics, Speech and Signal Processing (SASSP 2014).

■ RESEARCH EXHIBITION JURY

■ International

- 2019 Chief Jury at the International Industrial Revolution 4.0 Exposition 2019 (IREx 2019), 20.9.2019
- 2016 International Engineering Invention & Innovation Exhibition (i-ENVEX 2016), 9-10.4.2016
- 2015 International Engineering Invention & Innovation Exhibition (i-ENVEX 2015), 17-19.4.2015
- 2014 International Engineering Invention & Innovation Exhibition (i-ENVEX 2014), 11-13.4.2014

■ National

- 2019 Examiner for IEEE Malaysia Section Final Year Project Online Competition

■ Institutional

- 2018 Jury for 2018 UniMAP Three Minutes Thesis Competition, 10.4.2018
- 2017 Ekspo Rekacipta dan Penyelidikan (EREKA) UniMAP Short Video Competition 2017, 14.3.17
- 2015 1st UniMAP Cluster School Creativity & Innovation Competition 2015, 3.5.2015
- 2014 Business on Wheel (BOW) Concept Design Exhibition, 6.5.2014
- 2006 KUKUM Robot Contest 2006, 14-15.4.2006

■ CONFERENCE MANAGEMENT

■ International

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|------|---|--|
| 2019 | General Co-Chair | 2020 IEEE International RF & Microwave Conference |
| 2020 | National and International Advisory Board | 2 nd IEEE International Conference on Artificial Intelligence in Engineering and Technology (ICALET 2020) |
| 2020 | General Chair | The 5 th International Conference on Electronic Design, ICED 2020 |
| 2020 | Technical Program Committee Member | 2020 1 st Conference on Internet of Things and Embedded Intelligence |
| 2019 | General Co-Chair | 2019 IEEE Asia-Pacific Conference on Applied Electromagnetics, Malacca |
| 2018 | General Chair | The 4 th International Conference on Electronic Design, ICED 2018 |
| 2018 | Local Arrangement Committee Chair | 2018 IEEE RF & Microwave Conference, Penang |
| 2017 | Tutorial and Workshop Committee Chair | 2017 Asia-Pacific Microwave Conference, Kuala Lumpur |
| 2016 | Local Arrangement Committee Chair | 2016 IEEE Asia-Pacific Conference on Applied Electromagnetics, Langkawi |
| 2016 | Technical Program Committee Member | 11th European Conference on Antennas and Propagation, EuCAP 2017 |
| 2014 | Advisory Board Member | Applied Electromagnetic International Conference, APPEIC 2014 |
| 2014 | Publicity Committee Chair | The 2nd International Conference on Electronic Design, ICED 2014 |

■ RESEARCH EXPERTISE

National

2020	Research Grant Evaluator	Fundamental Research Grant Scheme 2020 (FRGS) Kolej Universiti Tunku Abdul Rahman
2020	Research Grant Evaluator	Fundamental Research Grant Scheme 2020 (FRGS) Universiti Kuala Lumpur

Institutional

2020	Research Grant Evaluator	Internal Panel
2019	Research Grant Evaluator	Internal Panel
2018	Research Grant Evaluator	Internal Panel
2017	Research Grant Evaluator	Internal Panel
2015	Researcher	Geopolymer and Green Technology Center of Excellence, School of Material Engineering, Universiti Malaysia Perlis
2014	Research Grant Evaluator	Internal Panel



CONSULTATION

2017	Question Drafters	Peperiksaan Perkhidmatan Kumpulan Pengurusan dan Profesional (Elektronik)	UniMAP PLV Grade 41
2016	Question Drafters	Peperiksaan Perkhidmatan Kumpulan Pengurusan dan Profesional (Elektronik)	UniMAP PLV Grade 41
2016	Instructor	Short Course for Institut Latihan Perindustrian (ILP) academic staff	Antenna and Installation
2014	Industrial Lecturer	Keysight UniMAP Development Program	Antenna and Propagation
2008	Industrial Lecturer	Agilent UniMAP Development Program	Electromagnetic Theory
2007	Instructor	Printed Circuit Board Fabrication Workshop, jointly organized by UniMAP and Vanguard Electronics Sdn.Bhd., 13-16.6.2007	RF & Microwave PCB Design
2007	Question Drafters	Penilaian Tahap Kecekapan	KUKUM Vocational Training Officer
2007	Industrial Lecturer	Agilent KUKUM Development Program	Microwave Communication
2006	Industrial Lecturer	Agilent KUKUM Development Program	Electromagnetic Theory
2005	Industrial Lecturer	Agilent KUKUM Development Program	Electromagnetic Theory



RESEARCH COLLABORATION WITH INDUSTRY / ACADEMIA

2020	Project Member	Project Scope: Smart Parking System Industry: Flextronic Technology Sdn Bhd Collaborating With: Dr Muataz Hameed Al-Doori Contribution: Project management between university and industry
2019	Project Member	Project Scope: Biometric Face Recognition System Industry: Flextronic Technology Sdn Bhd Collaborating With: Ahmad Shahabudin Idris Contribution: Project management between university and industry
2016	Antenna Measurement Consultant	Project Scope: Antenna Measurement for Land Mobile Radio antennas. Industry: Emits Technology Sdn Bhd Collaborating With: Por Chee Seong, Technical Director Contribution: Consultation on antenna measurement using anechoic chamber.
2015	Attachment of Supervised PhD student	Project Scope: Massive MIMO Antennas for Base Station. Industry: Telekom R&D Sdn. Bhd., Cyberjaya, Malaysia. Collaborating With: Mdm Dzuzlindah Ahmad, Senior Engineer, TM R&D. Contribution: Supervise doctoral student towards design, fabricate, measure and analysis of 16x16 massive multiple antenna structure. Output: PhD student (Surentiran Padmanathan) has attached to the industry for 3 months.
2012 – 2013	Principle Researcher	Project Scope: Design and Evaluation of MIMO antennas. Industry: NOKIA Corporation, Finland. Collaborating with: Dr. Ruiyuan Tian, Antenna Specialist, NOKIA. Contribution: Design and develop multiple antenna structures with different antenna sizes, and study their impacts on diversity and MIMO performance.

		Publication Output: 1 journal article: A. Abdullah Al-Hadi , R. Tian, "Impact of Multi-antenna Real Estate on Diversity and MIMO Performance in Mobile Terminals," IEEE Antennas and Wireless Propagation Letters, Vol. 12, pp. 1712-1715.
2011 – 2012	Principle Researcher	Project Scope: Antenna Simulation with Hand Effects. Industry: SPEAG, Switzerland. Collaborating With: Dr. Chung-Huan Li, Engineer, SEMCAD, SPEAG. Contribution: Study on impact of hands on multiple antenna performance. Publication Output: 1 conference proceeding: A. Abdullah Al-Hadi , J. Ilvonen, C-H. Li, J. Holopainen, P. Vainikainen (2012). Influence of the User's Hand on Mutual Coupling of Dual-Antenna Structures on Mobile Terminal. European Conference on Antenna and Propagation (EUCAP 2012), Prague, Czech.
2010 – 2011	Principle Researcher	Project Scope: Evaluation of MIMO antennas. Industry: Wi.S.Per, Greece. Collaborating With: Dr. Vasilis Papamichael, Principle Engineer, Wi.S.Per. Contribution: Analysis of multiple antenna structures in the presence of human hand. Publication Output: 1 journal article: A. Abdullah Al-Hadi , V. Papamichael, P. Vainikainen, "Multi-antenna Mobile Terminal Diversity Performance in Proximity to Human Hands under Different Propagation Environment Conditions," IET Electronic Letters. Vol. 47, No. 22, pp. 1214-1215, 2011.
2008 – 2009	Researcher	Project Scope: Multiple Antenna Measurements. Project: ETECH, funded by the joint Nordic research organization Nordforsk cooperation between three Nordic Universities. Institutions: Aalto University, Chalmers University of Technology and Denmark Technical University. Collaborating With: Prof. Pertti Vainikainen (AU), Dr. Tommi Laitinen (AU), Prof. Per-Simon Kildal (CUT), Prof. Jan Carlsson (CUT), Prof. Olav Breinbjerg (DTU) and Assoc. Prof. Sergey Pivnenko (DTU). Contribution: Measurement of multiple antenna structures at facilities uses different antenna measurement techniques. Publication Output: 1 conference proceeding: A. Abdullah Al-Hadi , J. Toivanen, T. Laitinen, P. Vainikainen, N. Jamaly, J. Carlsson, P.-S. Kildal, S. Pivnenko (2010). On Diversity Performance of Two-Element Coupling Element Based Antenna Structure for Mobile Terminal. European Conference on Antenna and Propagation (EUCAP2010), 12 th to 16 th April 2010, Barcelona, Spain.
2006 – 2009	Attachment of Supervised MSc student	Project Scope: Antennas for Mobile Phone. Industry: Amphenol Sdn. Bhd., Penang, Malaysia. Collaborating With: Por Chee Seong, RnD Manager, Amphenol. Contribution: Supervise master student towards design, fabricate, measure and analysis of mobile phone antenna structure. Output: MSc student (Saidatul Norlyana Azemi) has attached to the industry for 3 months. Her work has been documented and published N.A. Saidatul, A. Abdullah Al-Hadi , R.B. Ahmad, P.J. Soh, F. Malek, 'Multiband Fractal Planar Inverted F Antenna (F-PIFA) for Mobile Phone Application,' Progress in Electromagnetics Research B, Vol.14, 127-148, 2009.



VOLUNTEERSHIP

2019 – 2020	Chair-Elect	IEEE Malaysia Antenna and Propagation (AP) / Microwave Theory Techniques (MTT) / Electromagnetic Compatibility (EMC) Joint Chapter
2019 2018	Vice-President Vice-Chair	Parents and Teachers Association (PIBG) Sekolah Kebangsaan IPGM Perlis, Perlis IEEE Malaysia Antenna and Propagation (AP) / Microwave Theory Techniques (MTT) / Electromagnetic Compatibility (EMC) Joint Chapter
2016 – 2017	Executive Committee	IEEE Malaysia Antenna and Propagation (AP) / Microwave Theory Techniques (MTT) / Electromagnetic Compatibility (EMC) Joint Chapter
2016 – 2017	Student Branch Counselor	IEEE UniMAP Student Branch

AZREMI ABDULLAH AL-HADI



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PUBLICATION AND CITATION INDEXES

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No. of Publications: 134

H-index: 12

No. of Citations: 763



ResearchGate

RG Score: 26.9

Research Items: 176

No. of Citations: 999

Latest update on 27.6.2020



BOOK / CHAPTER: 2

- [1] **Azremi Abdullah Al-Hadi**, Multi-element Antennas for Mobile Communication Systems: *Design, Evaluation and User Interactions*, Helsinki: Aalto University Publication Series, ISBN 978-952-60-5338-7, 2013.
- [2] Ulaby Fawwaz T., M.S Anuar, S.A Aljunid, R. Badlishah, **Azremi Abdullah Al-Hadi** and P.J. Soh, *Electromagnetics Theory*, Malaysia: Prentice Hall Pearson, 2008.



LABORATORY MODULE: 1

- [1] Dayang Khadijah Hamzah, Hasnah Ahmad, Sharifah Zarihan Syed Zaharim Helmi, **Azremi Abdullah Al-Hadi**, Anuar Mat Safar, "Laboratory Module: EKT 241/4 Electromagnetic Theory", School of Computer & Communication Engineering, printed in 2006, published by Penerbit KUKUM, Kolej Universiti Kejuruteraan Utara Malaysia.



TECHNICAL REPORT: 1

- [1] **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Faizal Jamlos, Muzammil Jusoh, Rosemizi Abd Rahim, Zulkifli Husin, Tharek Abd Rahman, "Energy-efficient Mobile Terminal Antennas for Green 5G Wireless Communication Networks", Technical Report for Sciencefund Research Grant, Grant No: 01-01-15-SF0258, Ministry of Science, Technology and Innovation (MOSTI), Malaysia, September 2019.



Year: 2020

- [1] Ahmed Mohammad Elshirkasi, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Mohd Fais Mansor, Rizwan Khan, Prayoot Akkaraekthalin (2020). Impact of User's Finger on the Amount and Direction of Radiated Power from a 28 GHz 4-Element MIMO Antenna Mobile Terminal. Progress in Electromagnetic Research C, 2019 (*Scopus-indexed*)
- [2] Ping Jack Soh, Ezzaty Faridah Nor Mohd Hussin, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, Simon Podilchak (2020). Dual-Band, Dual-Sense Textile Antenna with AMC Backing for Localization using GPS and WBAN/WLAN. IEEE Access, Vol. 8, pp. 89468-89478, Dec. 2020 (Q1, IF 2018: 4.098) (*ISI-indexed, Scopus-indexed*)
- [3] Fatin Nabilah Gimam, Ping Jack Soh, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, Sharul Kamal Abdul Rahim, Dominique Schreurs, Prayoot Akkaraekthalin, Adalbert Beyer (2020). Gain Enhancement of a Dual-Band Planar Slot Dipole using AMC Plane for WBAN and WLAN Applications. ACES Journal, Vol. 35, No. 2, Feb. 2020 (Q4, IF 2019: 0.48) (*ISI-indexed, Scopus-indexed*)
- [4] Ahmed Mohammad Elshirkasi, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Mohd Fais Mansor, Rizwan Khan, Xiaoming Chen, Prayoot Akkaraekthalin (2020). Performance Study of a MIMO Mobile Terminal with up to 18 Elements Operating in the Sub-6GHz 5G Band with User's Hand. IEEE Access, Vol. 8, pp. 28164-28177, Feb. 2020 (Q1, IF 2018: 4.098) (*ISI-indexed, Scopus-indexed*)

Year: 2019

- [5] Yee, C., Mohamad Isa, M., **Abdullah Al-Hadi, A.** and Md Arshad, M. (2019). Techniques of Impedance Matching for Minimal PCB Channel Loss at 40 Gbps Signal Transmission. Circuit World, Vol. 45, No. 3, pp. 132-140, August 2019. (Q2, IF 2018: 1.042) (*ISI-indexed, Scopus-indexed*)
- [6] Toufiq Md Hossain, Hidayath Mirza, Ping Jack Soh, Mohd Faizal Jamlos, Rais Ahmad Sheikh, **Azremi Abdullah Al-Hadi**, Prayoot Akkaraekthalin (2019). Broadband Single-layered, Single-Sided Flexible Linear-to-Circular Polarizer using Square Loop Array for S-band Pico-Satellites. IEEE Access, Vol. 7, pp. 149262-149272, Dec. 2019. (Q1, IF 2018: 4.098) (*ISI-indexed, Scopus-indexed*)
- [7] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Che Muhammad Nor Che Isa, Tarmizi Ali, Owais, Shahid Khan (2019). Dual Polarized Antennas with Reduced User Effects for LTE-U MIMO Mobile Terminals. International Journal of Electronics and Communications, Vol. 111, November, 2019 (Q2, IF 2018: 2.853) (*ISI-indexed, Scopus-indexed*)
- [8] Ahmed Mohamed Elshirkasi, **Azremi Abdullah Al-Hadi**, Mohd Fais Mansor, Ping Jack Soh, Rizwan Khan (2019). A Study of Antenna Elements Configuration on a Four-Element Dual-Band Sub-6GHz MIMO Terminal Antenna with User's Hand. Progress in Electromagnetic Research C, Vol. 95, pp. 29-46, 2019 (*Scopus-indexed*)
- [9] Fatin Nabilah Gimam, Ping Jack Soh, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, Sharul Kamal Abdul Rahim, Dominique Schreurs, Prayoot Akkaraekthalin, Adalbert Beyer (2019). Gain Enhancement of a Dual-band Planar Slot Dipole using AMC Plane for WBAN and WLAN. Applied Computational Society Journal (Q4, IF 2018: 0.584) (*ISI-indexed, Scopus-indexed*)
- [10] Manzoor Elahi, Irfan Ullah, Rizwan Khan, **Azremi Abdullah Al-Hadi**, Saeeda Usman, Ping Jack Soh (2019). A Dual-band Planar Quasi Yagi Uda Antenna with Optimized Gain for LTE Applications. Progress in Electromagnetic Research C, Vol. 92, pp. 239-250, 2019 (*Scopus-indexed*)
- [11] Mohamed Elhefnawy, **Azremi Abdullah Al-Hadi** (2019). A Novel Design of Slotted Waveguide Phased Array Antenna. Advanced Electromagnetics, Vol. 8, No. 3, pp. 16-22, 2019 (*Scopus-indexed*)
- [12] Ahmed Mohamed Elshirkasi, **Azremi Abdullah Al-Hadi**, Mohd Fais Mansor, Rizwan Khan, Ping Jack Soh (2019). Envelope Correlation Coefficient of 2-Port MIMO Antenna under Uniform and Gaussian Angular Power Spectrum with User Hand Effect. Progress in Electromagnetic Research C, Vol. 92, pp. 123-136, 2019 (*Scopus-indexed*)
- [13] Zakaria N., Saidatul Norlyana Azemi, P.J. Soh, Rashidi C.B.M., **Azremi Abdullah Al-Hadi** (2019). FSS on Energy Saving Glass for RF Communication Enhancement in Modern Building. Indonesian Journal of Electrical Engineering and Computer Science. Vol 14(2), pp. 537-545. (*Scopus-indexed*)
- [14] Farzana Hazira Wan Mustaffa, Saidatul Norlyana Azemi, Mohd Faizal Jamlos, **Azremi Abdullah Al-Hadi**, Soh Ping Jack (2019). Passive Sensor Frequency Selective Surface for Structural Health Monitoring. Indonesian Journal of Electrical Engineering and Computer Science. Vol 14(2), pp. 744-750. (*Scopus-indexed*)
- [15] Siti Rohani Tajuddin, Saidatul Norlyana Azemi, Mohd Rashidi Che Beson, Ping Jack Soh, **Azremi Abdullah Al-Hadi** (2018). Analysis and Design of Directive Antenna using Frequency Selective Surface Superstrate. Indonesian Journal of Electrical Engineering and Computer Science. Vol 14(2), pp. 529-536. (*Scopus-indexed*)
- [16] Syaiful Anas Suhaimi, Saidatul Norlyana Azemi, Mohd Rashidi Che Beson, Ping Jack Soh, **Azremi Abdullah Al-Hadi** (2019). Highly Sensitive Frequency Selective Surface for Structural Health Monitoring System. Indonesian Journal of Electrical Engineering and Computer Science. Vol 14(2), pp. 523-528. (*Scopus-indexed*)
- [17] Che Muhammad Nor Che Isa, Saidatul Norlyana Azemi, **Azremi Abdullah Al-Hadi**, Rizwan Khan (2019). Effect of User's Hand on Efficiency of 2-Port 5 GHz Mobile Terminal Antennas. Bulletin of Electrical Engineering and Informatics, Vol. 8, No. 2, June 2019, pp. 606-612 (*Scopus-indexed*)

- [18] Nur Basyirah A Rahman, **Azremi Abdullah Al-Hadi**, Rizwan Khan (2019). Study of User Effects on Two-Port MIMO Antennas for 2.4 GHz Wi-Fi and 5.8 GHz WLAN Applications. *Bulletin of Electrical Engineering and Informatics*, Vol. 8, No. 1, March 2019, pp. 343-348 (*Scopus-indexed*)
- [19] Ahmed Elshirkasi, **Azremi Abdullah Al-Hadi**, Rizwan Khan, Ping Jack Soh (2019). Performance Evaluation of 2-Port MIMO LTE-U Terminal Antennas with User's Hand. *Bulletin of Electrical Engineering and Informatics*, Vol. 8, No. 1, March 2019, pp. 158-165 (*Scopus-indexed*)
- [20] Hidayath Mirza, Ping Jack Soh, **Azremi Abdullah Al-Hadi**, Toufiq Md Hossain, Rais Ahmed Sheikh, Mohd Faizal Jamlos (2019). S-Band Textile-based Flexible Linear to Circular Polarizing (LCP) Surface for Pico-Satellites. *Bulletin of Electrical Engineering and Informatics*, Vol. 8, No. 1, March 2019, pp. 142-149 (*Scopus-indexed*)
- [21] Wai Loon Cheor, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Mohd Faizal Jamlos (2019). Study of Multiple Antennas with Defected Ground Slot for Low-band LTE Application. *Bulletin of Electrical Engineering and Informatics*, Vol. 8, No. 1, March 2019, pp. 83-89 (*Scopus-indexed*)
- [22] Ping Jack Soh, Ezzaty Faridah Nor Mohd Hussin, Herwansyah Lago, Mohd Faizal Jamlos, **Azremi Abdullah Al-Hadi** (2019). Wideband Microstrip-based Wearable Antenna Backed with Full Ground Plane. *International Journal of RF and Microwave Computer-Aided Engineering* (Q3, IF 2018: 1.472) (*ISI-indexed, Scopus-indexed*)
- [23] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh (2019). Recent Advancements in User Effects Mitigation for Mobile Terminal Antennas: A Review. *IEEE Transactions on Electromagnetic Compatibility*, Vol. 61, No. 1, February 2019, pp. 279-287. (Q3, IF 2018: 2.274) (*ISI-indexed, Scopus-indexed*)

Year: 2018

- [24] Hidayath Mirza, Toufiq Md Hossain, Ping Jack Soh, Mohd Faizal Jamlos, Muhammad Nazrin Ramli, **Azremi Abdullah Al-Hadi**, Emad Hassan, Sen Yan (2018). Deployable Linear-to-Circular Polarizer using PDMS Based on Unloaded and Loaded Circular FSS Arrays for Pico-Satellites. *IEEE Access*, Vol. 7, pp. 2034-2041, Dec. 2018. (Q1, IF 2017: 3.557) (*ISI-indexed, Scopus-indexed*)
- [25] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Muhammad Ramlee Kamarudin, Mohd Tarmizi Ali, and Owais (2018). User Influence on Mobile Terminal Antennas: A Review of Challenges and Potential Solution for 5G Antennas. *IEEE Access*, Vol. 6, pp. 77695-77715 (Q1, IF 2017: 3.557) (*ISI-indexed, Scopus-indexed*)
- [26] Hidayath Mirza, Toufiq, Ping Jack Soh, Mohd Faizal Jamlos, Muhammad Nazrin Ramli, **Azremi Abdullah Al-Hadi**, Emad S.Hassan, Sen Yan (2018). Single Layered Swastika-Shaped Flexible Linear-to-Circular Polarizer using Textiles for S-Band Application. *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 28, Issue 7, September 2018. (Q3, IF 2017: 1.306) (*ISI-indexed, Scopus-indexed*)
- [27] Abdul Halim Lokman, Ping Jack Soh, Saidatul Norlyana Azemi, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, (2018). Gain Enhanced Circularly-Polarized Antenna Integrated with AMC for S-Band Pico-Satellites. *International Journal of RF and Microwave Computer-Aided Engineering*, Vol. 28, Issue 7, September 2018. (Q3, IF 2017: 1.306) (*ISI-indexed, Scopus-indexed*)
- [28] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Mohd Tarmizi Ali, Owais (2018). Design and Optimization of a Dual Band Sub-6 GHz Four Port Mobile Terminal Antenna Performance in the Vicinity of User's Hand. *Progress in Electromagnetic Research C*, Vol. 85, pp. 141-153, 2018. (*Scopus-indexed*)
- [29] Hamse Abdillahi Haji Omer, Saidatul Norlyana Azemi, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Mohd Faizal Jamlos (2018). Structural Health Monitoring Sensor Based on a Flexible Microstrip Patch Antenna. *Indonesian Journal of Electrical Engineering and Computer Science (IJECS)*, Vol. 10, No. 3, June 2018, pp. 917-924. (*Scopus-indexed*)
- [30] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh (2018). Efficiency of Millimeter Wave Mobile Terminal Antennas with the Influence of Users. *Progress in Electromagnetic Research*, Vol. 161, pp. 113-128, 2018. (Q2, IF 2017: 2.874) (*ISI-indexed, Scopus-indexed*)
- [31] Hidayath Mirza, Soh Ping Jack, Mohd Faizal Jamlos, Muhammad Nazrin Ramli, **Azremi Abdullah Al-Hadi**, R. Ahmad Sheikh, Emad S.Hassan, Sen Yan. A Crossed Dodecagonal Deployable Polarizer on Textile and Polydimethylsiloxane (PDMS) Substrates. *Applied Physics A: Materials Science and Processing*, Vol. 124, 2018 (Q3, IF 2017: 1.604) (*ISI-indexed, Scopus-indexed*)

Year: 2017

- [32] Chang Fei Yee, Asral Bahari Jambek, **Azremi Abdullah Al-Hadi** (2017). Enhancing High Speed Signal Integrity with Optimized Board Level Power Network Design. *Advanced Science Letters*, Vol. 23, No. 6, June 2017, pp. 5019-5023(5). (*Scopus-indexed*)
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