

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, 1980 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.

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

Dr. Azremi was the recipient of the Best Student Paper Award presented at the 5th Loughborough Antennas and Propagation Conference (LAPC 2009) and the CST University Publication Award in 2011.



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



AWARD AND RECOGNITION

International Awards

- 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

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

- 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 Member**, 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
22 Sept 2003 – 31 Aug 2004
20 May 2002 – 21 Sept 2003

University Lecturer, Universiti Malaysia Perlis (UniMAP)
Study Leave (Fellow), Birmingham University, United Kingdom
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



RESEARCH GRANT

■ **PRINCIPLE RESEARCHER / PROJECT LEADER : RM 798,594.00**

■ **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 681,494.00**

- 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 1,968,889.47

Governmental Research Grants: RM 1,197,300.00

- 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 706,589.47

- 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

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	Educational Antenna Training Set for Pattern Plotting	ITEX, K. Lumpur	Silver

Researcher and Analysis using Basic Antenna Shapes

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

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 FILED / GRANTED

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
2007	A Compact Planar and Highly Efficient Antenna for WLAN Application (PI No.: 20091675): A.A.H. Azremi , P.J. Soh, H.M.R. Nurul, N.A. Saidatul, C.S. Por, R.B. Ahmad, M.E. Baharudin, A.H. Suhaizal. Filed: March 2009	FILED



EDITORSHIP / REVIEWERSHIP

Journal Articles

- IEEE Transaction on Antennas and Propagation (2013 IF: 2.459, 2014 IF: 2.181)
- IEEE Antennas and Wireless Propagation Letters (2013 IF: 1.948, 2014 IF: 1.579)
- IET Electronic Letters (2017 IF: 1.155)
- International Journal of Antennas and Propagation (2016 IF: 1.164)
- IET Microwaves, Antennas and Propagation (2014 IF: 0.91)
- Journal of Electromagnetic Waves and Applications. (2013 IF: 1.395)
- Frequenz: Journal of RF-Engineering and Telecommunication (2014 IF: 0.393)
- Jurnal Teknologi.
- Progress in Electromagnetic Research (2014 IF: 1.229).
- Editorial Board: 2007 UniMAP eXPLORE Magazine

International Conference Articles

- Asia-Pacific Microwave Conference 2017 (APMC 2017).
- International Symposium on Antennas and Propagation 2017 (ISAP 2017).
- 1st International Joint Conference on Computer, Electrical and Electronics Engineering 2017 (IJCEE 2017).
- International Conference on Emerging Electronic Solutions for IoT 2017 (ICEESI 2017).
- International Conference on Electrical and Electronic Engineering 2017 (ICEE 2017).
- IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2016).
- International Conference on Advances in Electrical, Electronic and Systems Engineering (ICAESEE 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.
- International Conference on Advanced Material Engineering & Technology (ICAMET) 2014, 2015.
- The 9th International Conference on Robotics, Vision, Signal Processing and Power Applications (ROVISP) 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 and 2016.

■ 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

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 Jadoon	On-Going
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	Millimeter Waves Antenna for 5G Application	Norfatihah Bahari	On-Going

■ Master of Science / Doctor of Philosophy (subject to conversion viva)

2017	Main Supervisor	Design and Evaluation of MIMO Wearable Antenna for 5G	Mushrif Saidin	On-Going
2015	Co – Supervisor	New Methods to Overcome Key PCB Design Challenges for 40 Gbps High Speed Serial Link	Yee Chang Fei	On-Going

■ Master of Science

2017	Main Supervisor	Mitigation of User Effects for 5G MIMO Terminal Antenna	Nur Basyirah A Rahman	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	Main Supervisor	Design and Development of Pyramidal Microwave Absorbers using Agricultural Waste	Nornikman Hassan	GRADUATED
2009	Main Supervisor	Development of Fractal PIFA for Mobile Phone Applications	Saidatul Norlyana Azemi	GRADUATED

■ Professional Membership

2017	Supporter / Referee	Application for IET Chartered Engineer (UK)	Dr. Junita Mohd Nordin	PROMOTED
2016	Supporter / Referee	Application for IET Chartered Engineer (UK)	Dr. Muzammil Jusoh	PROMOTED
2016	Supporter / Referee	Application for IET Chartered Engineer (UK)	Dr. Hilal Adnan Fadhil	On-Going



ACADEMIC / RESEARCH RECOGNITION

ACADEMIC 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)

Institutional

2017 Chairman Viva-voce session chair for MSc and PhD candidates
 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 Chairman Pre-viva session chair for MSc and PhD candidates
 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

THESIS EXAMINER

National

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

2017 Research Seminar 'Multiple Antennas in Realistic Environment: Threat or Opportunities?' presented at 1st Thai-Malaysian Workshop on Antennas and Propagation, 7th Sept 2017, King Mongkut University of Technology North Bangkok.
 2014 Tutorial 'Antennas for Small MIMO Terminals' presented at International Symposium on Telecommunication Technologies, ISTT 2014

National

2018 Industrial Workshop 'Antennas and Its Interaction with Human Body' presented at CST Workshop 2018, Eastin Hotel Penang, 24.1.2018

Institutional

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

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

International

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

Institutional

2017	Ekspo Rekacipta dan Penyelidikan (EREKA) UniMAP Short Video Competition 2017, 14.3.17
2015	1 st 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

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	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

Institutional

2017	Research Grant Evaluator	Internal Evaluator for University Research Grant Proposals
2015	Researcher	Geopolymer and Green Technology Center of Excellence, School of Material Engineering, Universiti Malaysia Perlis
2014	Research Grant Evaluator	Fundamental Research Grant Scheme 1/2014 (FRGS) PPKKP Panel Evaluator



CONSULTATION

2017	Question Drafters	Peperiksaan Perkhidmatan Kumpulan Pengurusan dan Profesional (Elektronik)	UniMAP PLV Grade 41
2016	Consultant	Antenna Measurement Consultation using Anechoic Chamber	Emits Technology Sdn Bhd
2016	Vice-Chair	Radio-Frequency Working Group under Technical Committee on Electromagnetic Field for Malaysian Standard	SIRIM STS Sdn Bhd
2016	Permanent	Technical Committee on Electromagnetic Field for	SIRIM STS Sdn Bhd

2016	Representative Question Drafters	Malaysian Standard 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 Lecture	Keysight UniMAP Development Program	Antenna and Propagation
2008	Industrial Lecture	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 Lecture	Agilent KUKUM Development Program	Microwave Communication
2006	Industrial Lecture	Agilent KUKUM Development Program	Electromagnetic Theory
2005	Industrial Lecture	Agilent KUKUM Development Program	Electromagnetic Theory



RESEARCH COLLABORATION WITH INDUSTRY / ACADEMIA

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.A.H. Azremi , 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.A.H. Azremi , 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.A.H. Azremi , 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

2006 – 2009	Attachment of Supervised MSc student	<p>antenna measurement techniques.</p> <p>Publication Output: 1 conference proceeding: A.A.H. Azremi, 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), 12th to 16th April 2010, Barcelona, Spain.</p> <p>Project Scope: Antennas for Mobile Phone.</p> <p>Industry: Amphenol Sdn. Bhd., Penang, Malaysia.</p> <p>Collaborating With: Por Chee Seong, RnD Manager, Amphenol.</p> <p>Contribution: Supervise master student towards design, fabricate, measure and analysis of mobile phone antenna structure.</p> <p>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.A.H. Azremi, 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.</p>
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UNIVERSITY SOCIAL RESPONSIBILITY

2018	Participant	'Program Limpahan Kasih' with UniMAP Cansellor, Kg Balik Guar, Chuping, Perlis	Institut Kajian Institusi Raja, Kepimpinan dan Komuniti (IKRK) UniMAP PPKKP Staff Club
2015	Facilitator	Basic IT Course for Masjid Alwi (Kangar) community members	
2013	President	Malaysian Student Association of Finland	
2012	Principle Organizer	Photography Workshop by Saiful Nang@Helsinki, Finland 14.4.2012	Malaysian Student Association of Finland
2011	Principle Organizer	Photography Workshop by Khairul Hazwan - KH Live@Helsinki, Finland	Malaysian Student Association of Finland
2005	Participant	'Rakan Pendamping Siswa' Community Program at Sekolah Sri Tunjong, Beseri, Perlis	PPKKP RPS
2002	Participant	Village Adoption Program at Kampung Jelempok, Kedah	School of Microelectronic Engineering



VOLUNTEERSHIP

2018	Vice-Chair	IEEE Antenna and Propagation (AP) / Microwave Theory Techniques (MTT) / Electromagnetic Compatibility (EMC) Malaysia Joint Chapter
2016 – 2017	Executive Committee	IEEE Antenna and Propagation (AP) / Microwave Theory Techniques (MTT) / Electromagnetic Compatibility (EMC) Malaysia Joint Chapter
2016 – 2017	Student Branch Counselor	IEEE UniMAP Student Branch

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No. of Publications: 78
H-index: 10
No. of Citations: 420



ResearchGate

No. of Publications: 125
RG Score: 21.99
H-index: 13
H-index (excluding self-citations): 12
No. of Citations: 617



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, **A.A.H Azremi** 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.



JOURNAL / LETTER : 32

Year: 2018

- [1] 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) – Submitted.

- [2] 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 – Submitted. (QX, IF 2016: 2.404) *(ISI-indexed, Scopus-indexed)*
- [3] 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 2016: 1.444) *(ISI-indexed, Scopus-indexed)*
- [4] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Che Muhammad Nor Che Isa (2018). Reduction of User Effects using Dual Polarized Antennas for MIMO Mobile Terminal. IEEE Antennas and Wireless Propagation Letters – Under Revision. (Q2, IF 2016: 2.533) *(ISI-indexed, Scopus-indexed)*
- [5] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh (2018). Recent Advancements in User Effects Mitigation for Mobile Terminal Antennas: A Review. IEEE Transactions on Electromagnetic Compatibility – Accepted. (Q3, IF 2017: 1.658) *(ISI-indexed, Scopus-indexed)*

Year: 2017

- [6] 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)*
- [7] Chang Fei Yee, Asral Bahari Jambek, **Azremi Abdullah Al-Hadi** (2017). Impact of Non-Perfect Reference Plane on Multi-Gigabit Transmission. World Journal of Engineering, Vol. 14, Issue 4, pp 342-347, 2017. *(Scopus-indexed)*
- [8] Manzoor Elahi, Rizwan Khan, **Azremi Abdullah Al-Hadi**, Saeeda Usman, Ping Jack Soh, Habibullah Khan (2017). A Quad-band CPW Fed Slot Antenna Array for LTE and WiMAX Applications. Progress in Electromagnetics Research M, Vol. 61, 159-167, 2017.
- [9] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Ping Jack Soh, Muhsin Ali, Owais, Imtiaz Islam (2017). Multiband Monopole Antenna with Minimized Ground Plane Influence for Portable Devices. IET Microwaves, Antennas & Propagation, Issue 13, Vol. 11, pp. 1829-1835. (Q3, IF 2016: 0.817) *(ISI-indexed, Scopus-indexed)*
- [10] Abdul Halim Lokman, Ping Jack Soh, Saidatul Norlyana Azemi, Symon K. Podilchak, Suramate Chalermwisutkul, Mohd Faizal Jamlos, **Azremi Abdullah Al-Hadi**, Prayoot Akkaraekthalin, Steven Gao (2017). A Review of Antennas for Pico-Satellite Applications. International Journal of Antennas and Propagation, Vol. 2017. (Q3, IF 2016: 0.750) *(ISI-indexed, Scopus-indexed)*
- [11] Nur Farahiyah Mohamad Aun, Ping Jack Soh, **Azremi Abdullah Al-Hadi**, Mohd Faizal Jamlos, Guy A. E. Vandebosch, Dominique Schreurs (2017). Revolutionizing Wearables for 5G: 5G Technologies: Recent Developments and Future Perspectives for Wearable Devices and Antennas. IEEE Microwave Magazine, Vol. 18, May 2017, pp. 108-124. (Q1, IF 2016: 1.975) *(ISI-indexed, Scopus-indexed)*
- [12] Muhammad Nazrin Ramli, Ping Jack Soh, Mohd Faizal Jamlos, Norazizan Mohd Aziz, **Azremi Abdullah Al-Hadi** (2017). Dual Band Wearable Fluidic Antenna with Metasurface Embedded in a PDMS Substrate. Applied Physics A: Materials Science and Processing, Vol. 123, Issue 2, February 2017 (Q3, IF 2016: 1.444) *(ISI-indexed, Scopus-indexed)*
- [13] Ezzaty Faridah Nor Mohd Hussin, Ping Jack Soh, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, Mohd Hafiz Fazalul Rahiman (2017) A Wideband Textile Antenna with Ring Slotted AMC Plane. Applied Physics A: Materials Science and Processing, Vol. 123, pp. 46. (Q3, IF 2016: 1.444) *(ISI-indexed, Scopus-indexed)*
- [14] Fatin Nabilah Gimam, Ping Jack Soh, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, Mohamed Fareq Abdul Malek, Nidhal Abdulaziz (2017) Conformal Dual Band Textile Antenna with Metasurface for WBAN Applications. Applied Physics A: Materials Science and Processing, Vol. 123, pp. 32. (Q3, IF 2016: 1.444) *(ISI-indexed, Scopus-indexed)*
- [15] Nur Farahiyah Mohamad Aun, Ping Jack Soh, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, (2017) A Wideband Rectangular-Ring Textile Antenna Integrated with Corner-Notched Artificial Magnetic Conductor (AMC) Plane. Applied Physics A: Materials Science and Processing, Vol. 123, pp. 19. (Q3, IF 2016: 1.444) *(ISI-indexed, Scopus-indexed)*

Year: 2016

- [16] Chang Fei Yee, Asral Bahari Jambek, **Azremi Abdullah Al-Hadi**, “Advantages and Challenges of 10-Gbps Transmission on High-Density Interconnect Boards”, Journal of Electronic Materials, pp. 1-8, March 2016. (Q2, IF 2015: 1.491) *(ISI-indexed, Scopus-indexed)*
- [17] I. R. W. Perdana, **A. A. Al-Hadi**, M. Z. Bukhari, “The Shielding Materials from EM Radiation for Aircraft Fuselage”, Materials Science Forum, Vol. 857, pp. 598-602, January 2016.

Year: 2015

- [18] N. A. Rahman, M. F. Jamlos, H. Lago, M. A. Jamlos, P. J. Soh, **A. Abdullah Al-Hadi**, “Reduced Size Slotted Fractal Koch Log Periodic Antenna for 802.11af UHF TVWS Applications”, Microwave and Optical Technology Letters, Vol.

57, Issue12, pp. 2732-2737, December 2015. (Q4, IF 2014: 0.545) (ISI-indexed, Scopus-indexed)

- [19] Syed Zulkarnain Syed Idrus, **Azremi Abdullah Al Hadi**, Phak Len Al Eh Kan, Suhizaz Sudin and Kamarudin Hussin (2015). Keystroke Dynamics for Construction Industry: A Review on Biometric Systems. Applied Mechanics and Materials, Vol. 815, pp. 234-237, Nov. 2015.

Year: 2014

- [20] **A.A.H. Azremi**, J. Ilvonen, R. Valkonen, V. Viikari, "Eight-element Antenna Array for Diversity and MIMO Mobile Terminal in LTE 3500 MHz Band," Microwave and Optical Technology Letters, Vol. 56, Issue 6, pp. 1323-1327, June 2014. (Q4, IF 2013: 0.568) (ISI-indexed, Scopus-indexed).

Year: 2013

- [21] **Azremi Abdullah Al-Hadi**, Ruiyuan 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. (Q1, IF 2012: 1.948) (ISI-indexed, Scopus-indexed)
- [22] **A.A.H. Azremi**, N. Jamaly, K. Haneda, C. Icheln, "Design and Measurement-Based Evaluation of Multi-antenna Mobile Terminals for LTE 3500 MHz Band," Progress in Electromagnetics Research B, Vol. 53, 241-266 (Scopus-indexed).
- [23] Mohd I. Jais, Mohd F. Jamlos, Muzammil Jusoh, Thennarasan Sabapathy, Muhammad R. Kamarudin, R.B. Ahmad, **A.A.H. Azremi**, Emi. I Azmi, P.J. Soh, Guy A.E. Vandenbosch, Nur L.K. Ishak, "A Novel 2.45GHz Switchable Beam Textile Antenna (SBTA) for Outdoor Wireless Body Area Network (WBAN) Applications," Progress In Electromagnetics Research, PIER 138, 613-627, 2013. (Scopus-indexed)

Year: 2011

- [24] H. Nornikman, F. Malek, M. Ahmed, F.H. Wee, P.J. Soh, **A.A.H. Azremi**, S.A. Ghani, A. Hasnain, M.N. Taib, 'Setup and Results of Pyramidal Microwave Absorbers using Rice Husks', Progress In Electromagnetics Research, PIER 111, 141-161, 2011. (Q1, IF 2010: 5.298) (ISI-indexed, Scopus-indexed)
- [25] M. F. b. A. Malek, E. M. Cheng, O. Nadiah, H. Nornikman, M. Ahmed, M. Z. A. Abd Aziz, A. R. Othman, P. J. Soh, **A.A.H. Azremi**, A. Hasnain, and M. N. Taib, "Rubber Tire Dust-Rice Husk Pyramidal Microwave Absorber", Progress In Electromagnetics Research, PIER 117, 449-477, 2011. (Q1, IF 2010: 5.298) (ISI-indexed, Scopus-indexed)
- [26] **A.A.H. Azremi**, J. Ilvonen, R. Valkonen, J. Holopainen, O. Kivekas, C. Icheln, P. Vainikainen, "Coupling Element – Based Dual-Antenna Structures with Hand Effects," International Journal of Wireless Information Networks, Springer Link, Vol.18, Issue 3, 2011, page 146-157 (Scopus-indexed).
- [27] **A.A.H. Azremi**, V. Papamichael, P. Vainikainen, "Multi-antenna Mobile Terminal Diversity Performance in Proximity to Human Hands under Different Propagation Environment Conditions," Electronic Letters. Vol. 47, No. 22, pp. 1214-1215, 2011. (Q3, IF 2010: 0.965) (ISI-indexed, Scopus-indexed)

Year: 2010

- [28] H. Nornikman, F. Malek, P.J. Soh, **A.A.H. Azremi**, F.H. Wee, A. Hasnain, 'Parametric Study of Pyramidal Microwave Absorber using Rice Husk', Progress In Electromagnetics Research, PIER 104, 145-166, 2010. (Q1, IF 2009: 3.745) (ISI-indexed, Scopus-indexed)

Year: 2009

- [29] N.A. Saidatul, **A.A.H. Azremi**, 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 (Scopus-indexed).
- [30] A.A.M. Ezanuddin, P.J. Soh, **A.A.H. Azremi**, R.B. Ahmad; "Design and analysis of a novel dielectric loaded helical antenna", WSEAS Transactions on Communications, Vol. 8, Issue 8, pp. 925-934, 2009 (Scopus-indexed).

Year: 2007

- [31] P.J. Soh, **A.A.H. Azremi**, M. S. Anuar; M.K.A Rahim, A. Nurainunnazli; "Comparison of Direct Contact Feeding Methods for a Rectangular Microstrip Patch Antenna", Journal of Engineering Research and Education, 2007, Vol. 4, ISSN 1823-2981, UniMAP.

Year: 2006

- [32] **A.A.H. Azremi**, M. S. Anuar, P.J. Soh; "A Study and Investigation of Small Antenna Efficiency Measurement using Reverberation Chamber", KUKUM 3rd Engineering and Engineering Education Journal.



INTERNATIONAL CONFERENCE PROCEEDING : 99

Year: 2018

- [1] Surentiran Padmanathan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos, Sharul Kamal Abdul Rahim (2018). Multiband Pattern-Reconfigurable PIFA for 5G MIMO Mobile Terminals. 2018 European Conference on Antennas and Propagation (EuCAP 2018), 9 – 13 Apr. 2018, London, United Kingdom – accepted.
- [2] Muhammad Nazrin Ramli, Ping Jack Soh, Sharul Kamal Abdul Rahim, Mohd Faizal Jamlos, **Azremi Abdullah Al-Hadi**, Mohd Firdaus Ibrahim, Herwansyah Lago, Niels Kuster (2018). Flexible Dual-Band AMC-Backed PDMS Antenna with Fluidic Metal for WBAN and WLAN. 2018 European Conference on Antennas and Propagation (EuCAP 2018), 9 – 13 Apr. 2018, London, United Kingdom – accepted.
- [3] Ezzaty Faridah Nor Mohd Hussin, Ping Jack Soh, **Azremi Abdullah Al-Hadi**, Mohd Faizal Jamlos, Herwansyah Lago, Niels Kuster, Symon K. Podilchak (2018). Dual-Band Dual-Polarized Textile Antenna for Location Tracking in AAL. 2018 European Conference on Antennas and Propagation (EuCAP 2018), 9 – 13 Apr. 2018, London, United Kingdom – accepted.

Year: 2017

- [4] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack (2017). User Effect on 60 GHz 4-port Mobile Terminal Antenna. 2017 IEEE 15th Student Conference on Research and Development (SCOREd 2017), 13 - 14 Dec. 2017, Putrajaya, Malaysia.
- [5] Hamse Abdillahi Haji Omer, Saidatul Norlyana Azemi, Mohd Faizal Jamlos, **Azremi Abdullah Al-Hadi**, Ping Jack Soh (2017). Structural Health Monitoring Sensor Based on a Flexible Microstrip Patch Antenna. 2017 International Conference on Electrical, Electronic, Communication and Control Engineering, 5 – 6 Dec. 2017, Kuala Lumpur.
- [6] Surentiran Padmanathan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2017). Dual-port 28 GHz Pattern Reconfigurable Quadruple Parasitic IFA Design. 2017 Asia Pacific Microwave Conference (2017 APMC), 13 - 16 Nov. 2017, Kuala Lumpur, Malaysia.
- [7] Nur Basyirah A Rahman, **Azremi Abdullah Al-Hadi**, Saidatul Norlyana Azemi (2017). Impedance Analysis of Mobile Phone Antenna in the Presence of User's Hand. International Conference on Emerging Electronic Solutions for IOT (ICEESI 2017), 9 - 10 Oct. 2017, Penang, Malaysia.
- [8] Mohamad Khlouf Munzer, Saidatul Norlyana Azemi, Mohd Faizal Jamlos, Soh Ping Jack, **Azremi Abdullah Al-Hadi** (2017). Dual Band Planar Inverted F Antenna (PIFA) with L-Shape Configuration. International Conference on Emerging Electronic Solutions for IOT (ICEESI 2017), 9 - 10 Oct. 2017, Penang, Malaysia.
- [9] Nur Ain Fatimah Mohd Zainudin, Saidatul Norlyana Azemi, Mohd Faizal Jamlos, Soh Ping Jack, **Azremi Abdullah Al-Hadi** (2017). Frequency Selective Surfaces on Flexible Thin Plastic Substrates. International Conference on Emerging Electronic Solutions for IOT (ICEESI 2017), 9 - 10 Oct. 2017, Penang, Malaysia.
- [10] Saidatul Norlyana Azemi, Mohd Faizal Jamlos, Soh Ping Jack, **Azremi Abdullah Al-Hadi** (2017). Helical Antenna Sensor for Different Liquid Type Identification. International Conference on Emerging Electronic Solutions for IOT (ICEESI 2017), 9 - 10 Oct. 2017, Penang, Malaysia.
- [11] Farzana Hazira Wan Mustaffa, Saidatul Norlyana Azemi, Mohd Faizal Jamlos, **Azremi Abdullah Al-Hadi**, Soh Ping Jack (2017). Passive Sensor Frequency Selective Surface for Structural Health Monitoring. International Conference on Emerging Electronic Solutions for IOT (ICEESI 2017), 9 - 10 Oct. 2017, Penang, Malaysia.
- [12] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack. User Effect on the Efficiency of 4-port Mobile Terminal Antenna at 28 GHz. International Symposium on Antennas and Propagation (ISAP 2017), 30 Oct-2 Nov. 2017, Phuket, Thailand.
- [13] Surentiran Padmanathan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2017). A Compact Two-Port Tunable Dual Band Spiral Antenna for MIMO Terminals. International Symposium on Antennas and Propagation (ISAP 2017), 30 Oct-2 Nov. 2017, Phuket, Thailand.
- [14] Surentiran Padmanathan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2017). A Compact Tunable Dual Band Inverted-L Antenna for MIMO Mobile Terminal Applications. International Symposium on Antennas and Propagation (ISAP 2017), 30 Oct-2 Nov. 2017, Phuket, Thailand.
- [15] Che Muhammad Nor Che Isa, **Azremi Abdullah Al-Hadi**, Saidatul Norlyana Azemi, Muhammad Ezanuddin Abdul Aziz, Herwansyah Lago, Mohd Faizal Jamlos, Nornikman Hassan, Badrul Hisham Ahmad (2017). Mutual Coupling Reduction for 5 GHz PIFAs in MIMO Terminal. International Symposium on Antennas and Propagation (ISAP 2017), 30 Oct-2 Nov. 2017, Phuket, Thailand.
- [16] Abdul Halim Lokman, Ping Jack Soh, Saidatul Norlyana Azemi, Mohd Faizal Jamlos, **Azremi Abdullah Al-Hadi** (2017). Compact Circularly Polarized S-band Antenna for Pico-Satellites. International Symposium on Antennas and Propagation (ISAP 2017), 30 Oct-2 Nov. 2017, Phuket, Thailand.
- [17] Ezzaty Faridah Nor Mohd Hussin, Soh Ping Jack, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, Mariana Ricca, Sven Kuhn, Niels Kuster. Wearable Textile Antenna with a Dual-band AMC Plane for GPS and WLAN Applications. The 8th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2017), 25-28 July 2017, Incheon, Korea.
- [18] Nur Farahiyah Mohamad Aun, Soh Ping Jack, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**. Dual-UWB T-Slotted AMC for Mandatory UWB Channels. The 8th International Conference on Metamaterials,

- Photonic Crystals and Plasmonics (META 2017), 25-28 July 2017, Incheon, Korea.
- [19] Hidayath Mirza, Soh Ping Jack, Mohd Faizal Jamlos, Muhammad Nazrin Ramli, **Azremi Abdullah Al-Hadi**, Emad S.Hassan, Sen Yan. Unloaded & Loaded Circular Shaped Flexible Linear to Circular Polarizer using Polydimethylsiloxane (PDMS). The 8th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2017), 25-28 July 2017, Incheon, Korea.
- [20] Hidayath Mirza, Soh Ping Jack, Mohd Faizal Jamlos, Muhammad Nazrin Ramli, **Azremi Abdullah Al-Hadi**, Emad S.Hassan, Sen Yan. Swastika-Shaped Flexible Linear to Circular Polarizer using Textiles. The 8th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2017), 25-28 July 2017, Incheon, Korea.
- [21] Hidayath Mirza, Soh Ping Jack, Mohd Faizal Jamlos, Muhammad Nazrin Ramli, **Azremi Abdullah Al-Hadi**, R. Ahmad Sheikh, Emad S.Hassan, Sen Yan. Unloaded-Dodecagon-Shaped Flexible Linear to Circular Polarizer using Polydimethylsiloxane (PDMS). The 8th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2017), 25-28 July 2017, Incheon, Korea.
- [22] Muhammad Nazrin Ramli, Soh Ping Jack, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi**. Flexible Antenna with Artificial Magnetic Conductor using Liquid Metal at 5.8 GHz. The 8th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2017), 25-28 July 2017, Incheon, Korea.
- [23] Abdul Halim Lokman, Soh Ping Jack, Mohd Faizal Jamlos, Saidatul Norlyana Azemi, Herwansyah Lago, **Azremi Abdullah Al-Hadi**. A Flexible Circularly Polarized Antenna Integrated with AMC for Cubesat Application. The 8th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2017), 25-28 July 2017, Incheon, Korea.
- [24] M. A. Humayun, H. A. Rahim, M. AbdulMalek, P. J. Soh, M. S. Zulkefli, C. M. Nor, **A. A. Al-Hadi**, "Far-Field Measurement of LTE Base Station-like Exposure in RF-shielded Environment," Proceeding of 5th Advanced Electromagnetics Symposium (AES 2017), Incheon, Korea, 26-28 July 2017.
- [25] M. A. Humayun, H. A. Rahim, M. AbdulMalek, P. J. Soh, M. S. Zulkefli, C. M. Nor, **A. A. Al-Hadi**, "Shielding Effectiveness Measurement for Conductive Textile-based RF-shielded Environment," Proceeding of 5th Advanced Electromagnetics Symposium (AES 2017), Incheon, Korea, 26-28 July 2017

Year: 2016

- [26] Ping Jack Soh, Fatin Nabila Gimam, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi** (2016). A C-slotted Dual Band Textile Antenna for WBAN Applications. URSI Asia-Pacific Radio Science Conference (URSI AP-RASC), 21-25 Aug 2016, Seoul, South Korea.
- [27] Ezzaty Faridah Nor Mohd Hussin, Ping Jack Soh, Mohd Faizal Jamlos, Herwansyah Lago, **Azremi Abdullah Al-Hadi** (2016). Wideband Textile Antenna with Low Back Radiation for Wearable Applications. URSI Asia-Pacific Radio Science Conference (URSI AP-RASC), 21-25 Aug 2016, Seoul, South Korea.
- [28] Abdul Halim Lokman, Soh Ping Jack, Herwansyah Lago, Mohamad Aizad Ismail Yatim, Mhd Ezanuddin Abd Aziz, Saidatul Norlyana Azemi, **Azremi Abdullah Al-Hadi** (2016). A Flexible Deployable CubeSat Antenna. 2016 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2016), 11-13 December 2016, Langkawi, Malaysia.
- [29] Che Muhammad Nor Che Isa, **Azremi Abdullah Al-Hadi**, Saidatul Norlyana Azemi, Muhammad Ezanuddin Abdul Aziz, Herwansyah Lago, Mohd Faizal Jamlos (2016). Effects of Hand on the Performance of 5 GHz Two-Port Terminal Antennas. 2016 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2016), 11-13 December 2016, Langkawi, Malaysia.
- [30] Rizwan Khan, **Azremi Abdullah Al-Hadi**, Manzoor Elahi (2016). Design of Circular and Pyramidal Shape Reconfigurable UWB Monopole Antennas for Cognitive Radio Applications. 2016 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2016), 11-13 December 2016, Langkawi, Malaysia.
- [31] Cheor Wai Loon, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2016). Impact of Antenna Types and Locations on Small Multi-element Antenna Performance for Low-band LTE Mobile Terminal. 2016 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2016), 11-13 December 2016, Langkawi, Malaysia.
- [32] Surentiran Padmanathan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2016). Dual Port MIMO Half-Shaped Cubical Parasitic PIFA Mobile Terminal Design for Pattern and Frequency Reconfiguration Applied in Mobile Terminals. 2016 IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2016), 11-13 December 2016, Langkawi, Malaysia.
- [33] Surentiran Padmanathan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2016). A Compact 2-Port Half-Shaped Cubical PIFA Design for Pattern Reconfigurable MIMO Terminal. International Symposium on Antennas and Propagation (ISAP 2016), 24-28 October 2016, Okinawa, Japan.
- [34] Devakumaran Subramaniam, Muzammil Jusoh, Thenna Sabapathy, Mohd Ilman Jais, **Azremi Abdullah Al-Hadi** (2016). Characterization of Dual-band 900MHz and 1800MHz Mobile Phone in the Presence of Casing. 2016 International Conference on Radar, Antenna, Microwave, Electronics and Telecommunications (ICRAMET 2016), 3-5 October 2016, Jakarta, Indonesia.
- [35] Nur Farahiyah Mohamad Aun, Soh Ping Jack, Herwansyah Lago, **Azremi Abdullah Al-Hadi**, Mohd Faizal Jamlos (2016). A Wideband Corner-Notched Artificial Magnetic Conductor (AMC) Integrated With a Rectangular Ring Antenna. The 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2016), 25-28 July 2016, Malaga, Spain.
- [36] Chang Fei Yee, Asral Bahari Jambek, **Azremi Abdullah Al-Hadi** (2016). Enhanced High Speed Signal Integrity with Optimized Board Level Power Network Design. International Conference on Computer, Communication and Control

2016 (I4CT 2016), 19-21 April 2016, Kota Kinabalu, Malaysia.

Year: 2015

- [37] I. R. W. Perdana, M. Z. Bukhari, **Azremi Abdullah Al-Hadi** (2015). The Shielding Materials from EM Radiation for Aircraft Fuselage. 4th International Conference on Advanced Material Engineering & Technology (ICAMET 2015), Kaohsiung City, Taiwan.
- [38] Surentiran Padmanathan, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2015). Reconfigurable Antennas for MIMO Applications: An Overview. 2015 IEEE Student Conference on Research and Development (SCOREd), 13-14 December 2015, Kuala Lumpur, Malaysia.
- [39] Cheor Wai Loon, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2015). Recent Developments in Multiple Antenna Mutual Coupling Compensation for Mobile Terminals. 2015 IEEE Student Conference on Research and Development (SCOREd), 13-14 December 2015, Kuala Lumpur, Malaysia.
- [40] Cheor Wai Loon, **Azremi Abdullah Al-Hadi**, Soh Ping Jack, Mohd Faizal Jamlos (2015). Scattering Parameter – based Loss Characteristics of Two Monopole Antennas for Low-band LTE Mobile Terminals. 2015 IEEE International RF and Microwave Conference (RFM 2015), 14-16 December 2015, Kuching, Sarawak, Malaysia.
- [41] Chang Fei Yee, Asral Bahari Jambek, **Azremi Abdullah Al-Hadi** (2015). Essential Board Design Considerations for 1.6 GHz DDR4 Transmission. 2015 IEEE International RF and Microwave Conference (RFM 2015), 14-16 December 2015, Kuching, Sarawak, Malaysia.
- [42] **Azremi Abdullah Al-Hadi**, Mohamad Kamal Abd Rahim, N. A. Samsuri (2015). Evaluation of Two- to Eight-element Antenna Array in Mobile Terminal. International Symposium on Antennas and Propagation (ISAP 2015), 9-12 November 2015, Hobart, Tasmania, Australia.
- [43] Suhizaz Sudin, R Badlishah Ahmad, **Azremi Abdullah Al Hadi**, Phak Len Eh Kan, Syed Zulkarnain Syed Idrus and Mohd Mustafa AlBakri Abdullah (2015). The Influence of User Mobility in Mobile Virus Propagation: An Enterprise Mobile Security Perspective. International Conference on E-Commerce (IcoEC 2015), 20-22 October 2015, Sarawak, Malaysia.

Year: 2013

- [44] J. Salo, K. Haneda, V.-M. Kolmonen, **A.A.H. Azremi**, P. Vainikainen (2013). Measurement-based Evaluation of Link Budget Gain from 3GPP LTE Uplink Transmit Antenna Selection. 2013 IEEE 77th Vehicular Technology Conference (VTC2013-Spring), Dresden, Germany.

Year: 2012

- [45] **A.A.H. Azremi**, 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.
- [46] J. Holopainen, J. Ilvonen, R. Valkonen, **A.A.H. Azremi**, P. Vainikainen (2012). Study on the Minimum Required Size of the Low-Band Cellular Antenna in Variable-Sized Mobile Terminals. European Conference on Antenna and Propagation (EUCAP 2012), Prague, Czech.

Year: 2011

- [47] **A.A.H. Azremi**, M. Costa, V. Koivunen, P. Vainikainen (2011). Ambiguity Analysis of Isolation-Based Multi-antenna Structures on Mobile Terminal. European Conference on Antenna and Propagation (EUCAP 2011), Rome, Italy.
- [48] **A.A.H. Azremi**, K. Haneda, P. Vainikainen (2011). Site-Specific Evaluation of a MIMO Channel Capacity for Multi-antenna Mobile Terminals in Proximity to a Human Hand. European Conference on Antenna and Propagation (EUCAP 2011), Rome, Italy.
- [49] J. Ilvonen, O. Kivekas, **A.A.H. Azremi**, R. Valkonen, J. Holopainen, P. Vainikainen (2011). Isolation Improvement Method for Mobile Terminal Antennas at LowerUHF Band. European Conference on Antenna and Propagation (EUCAP 2011), Rome, Italy.

Year: 2010

- [50] H. Nornikman, P.J. Soh, F. Malek, **A.A.H. Azremi**, F.H. Wee, R.B. Ahmad (2010). Microwave Wedge Absorber Design using Rice Husk – An Evaluation on Placement Variation. Asia-Pacific International Symposium on Electromagnetic Compatibility, 12-16 April 2010, Beijing, China.
- [51] H. Nornikman, F. Malek, P.J. Soh, **A.A.H. Azremi** (2010). Effect on Source Signal Condition for Pyramidal Absorber Performance. International Conference on Computer and Communication Engineering (ICCCE 2010), 11-13 May 2010, Kuala Lumpur.
- [52] H. Nornikman, F. Malek, P.J. Soh, **A.A.H. Azremi**, S.A Ghani (2010). Potential Rice Husk for Pyramidal Microwave Absorber Design. International Conference of Institution of Engineering and Technology (IET) Brunei Darussalam Network (ICIET 2010), 21-23 June 2010, Bandar Seri Begawan, Brunei.
- [53] H. Nornikman, F. Malek, P.J. Soh, **A.A.H. Azremi** (2010). Reflection Loss Performance of Hexagonal Based Pyramid Microwave Absorber using Different Agricultural Waste Material. 2010 Loughborough Antennas & Propagation Conference, 8-9 November 2010, Loughborough, UK.
- [54] H. Nornikman, F. Malek, P.J. Soh, **A.A.H. Azremi** (2010). Reflection Loss Performance of Triangular Microwave Absorber. International Symposium on Antennas and Propagation (ISAP 2010), 23-26 November 2010, Macau,

China.

- [55] **A.A.H. Azremi**, 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), 12th to 16th April 2010, Barcelona, Spain.
- [56] **A.A.H. Azremi**, J. Ilvonen, J. Holopainen, R. Valkonen, O. Kivekas, C. Icheln, P. Vainikainen (2010). Performance Analysis of Broadband Coupling Element Based Multiantenna Structure for Mobile Terminal with Hand Effects. The 21st IEEE Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC2010). 26th to 30th September 2010, Istanbul, Turkey.
- [57] M. Dashti, A. Khatun, T. Laitinen, **A.A.H. Azremi**, M. Ghoraishi, K. Haneda, J. Takada (2010). UWB Ranging with Antenna Proximity to the Human Head. 2010 Asia Pacific Microwave Conference (APMC2010), Yokohama, Japan.
- [58] Nornikman Hassan, Mohd Fareq Abd Malek, Hasnain Abdullah, Mohd Nasir Taib, Wan Khairuddin Wan Ali, Soh Ping Jack, **Azremi Abdullah Al-Hadi**, Wee Fwen Hoon (2010). Performance of Different Agricultural Waste Material for Pyramidal Microwave Absorber Design. 9th International Annual Simposim on Sustainability Science and Management (UMTAS 2010), 8-11 May 2010, Terengganu.
- [59] Nornikman Hassan, Hasnain Abdullah, Mohd Fareq Abd Malek, Mohd Nasir Taib, Wan Khairuddin Wan Ali, Soh Ping Jack, **Azremi Abdullah Al-Hadi**, Wee Fwen Hoon (2010). Measurement of Pyramidal Microwave Absorbers using RCS Methods. The 3rd International Conference on Intelligent & Advanced Systems (ICIAS 2010), 15-17 June 2010, Kuala Lumpur.
- [60] H. Nornikman, F. Malek, P.J. Soh, **A.A.H. Azremi** (2010). Design a Rice Husk Pyramidal Microwave Absorber with Split Ring Resonator. The Asia-Pacific Symposium on Applied Electromagnetics and Mechanics 2010 (APSAEM 2010), 28-30 July 2010, Kuala Lumpur.
- [61] N.A Saidatul, Y. Sun, D. Lauder, P.J Soh, **A.A.H. Azremi** (2010). Multiband Fractal PIFA (Planar Inverted F Antenna) for Mobile Phones. 2010 7th International Symposium on Wireless Communication Systems (ISWCS 2010). Sept. 19th – 22nd, York, UK.

Year: 2009

- [62] A.A.M Ezanuddin, P.J. Soh, **A.A.H. Azremi**, Soo Liam Ooi; "Design and Application of a Novel Dielectric Loaded Helical Antenna for WLAN Products", in Proceedings of the 3rd Asia International Conference on Modeling and Simulation (AMS 2009), 25th – 29th May 2009, Bandung and Bali, Indonesia.
- [63] H. Nornikman, P.J. Soh, **A.A.H. Azremi**; "Performance Simulation of Pyramidal and Wedge Microwave Absorbers", in Proceedings of the 3rd Asia International Conference on Modeling and Simulation (AMS 2009), 25th – 29th May 2009, Bandung and Bali, Indonesia.
- [64] H. Nornikman, P.J. Soh, **A.A.H. Azremi**, F.H Wee, F. Malek; "Investigation of an Agricultural Waste as an Alternative Material for Microwave Absorbers", in Proceedings of the 26th Progress in Electromagnetics Research Symposium (PIERS 2009), 18-21st August 2009, Moscow.
- [65] H.Nornikman, P.J Soh, **A.A.H. Azremi** (2009). Modeling and Simulation of a Pyramidal and Wedge Microwave Absorber Design. 4th International Conference on Electromagnetic Near-Field Characterization and Imaging (ICONIC '09). June 24th – 26th, Taipei, Taiwan.
- [66] H.Nornikman, P.J Soh, **A.A.H. Azremi** (2009). Performance of Different Polygonal Microwave Absorber Designs Using Novel Material. International Symposium on Antennas and Propagation (ISAP 2009). October 20th – 23rd. Bangkok, Thailand.
- [67] **A.A.H. Azremi**, M. Kyro, J. Ilvonen, J. Holopainen, S. Ranvier, C. Icheln, P. Vainikainen (2009). Five-Element Inverted-F Array Antenna for MIMO Communications and Radio Direction Finding on Mobile Terminal. Loughborough Antenna and Propagation Conference (LAPC 2009). November 16th – 17th, Loughborough, UK.
- [68] N.A Saidatul, **A.A.H. Azremi**, R.B Ahmad, P.J Soh (2009). Development of Fractal Planar Inverted-F Antenna (PIFA) with Bandwidth Enhancement for Mobile Phone Applications. Loughborough Antenna and Propagation Conference (LAPC 2009). November 16th – 17th, Loughborough, UK.

Year: 2008

- [69] P.J. Soh, RAJA Amir, M.M. Aiza, **A.A.H. Azremi**; "Performance Simulation of Microstrip Dipole Array Antenna for WLAN Applications", in Proceedings of the Asia Modeling Symposium (AMS 2008), Kuala Lumpur, Malaysia.
- [70] P.J. Soh, R.A.J. Amir, M.M. Aiza, **A.A.H. Azremi**, M.Z.A. Abdul Aziz, M.K.A. Rahim, A.H. Suhaizal; "Parametric Performance Simulation of a Proximity Coupled Fed Microstrip Dipole Array", in Proceedings of the 2008 Asia Pacific Symposium on Electromagnetic Compatibility (APEMC 2008), 19th - 23rd May 2008, Singapore.
- [71] **A.A.H. Azremi**, N.A Saidatul, P.J.Soh, M.A Idris, N. Mahmed; "A Cylindrical Barium Strontium Titanate (BST) Dielectric Resonator Antenna for 5.0 GHz Wireless LAN Application", in Proceedings of the 2008 Asia Pacific Symposium on Electromagnetic Compatibility (APEMC 2008), 19th - 23rd May 2008, Singapore.
- [72] P.J. Soh, RAJA Amir, M.M. Aiza, **A.A.H. Azremi**; "Performance Modeling and Simulation of Microstrip Dipole Array Antenna for Wireless LAN Application", in Proceedings of the 2008 Asia Pacific Symposium on Electromagnetic Compatibility (APEMC 2008), 19th - 23rd May 2008, Singapore.
- [73] H. Nornikman, P.J. Soh, **A.A.H. Azremi**; "Potential Types of Biomaterial Absorber for Microwave Signal Absorption", in Proceedings of the 4th International Conference on X Rays and Related Techniques in Research and Industries 2008 (ICXRI 2008), 2nd – 3rd June 2008, Kota Kinabalu, Sabah.

- [74] S. R. Norra , N.A. Saidatul, **A.A.H. Azremi**, P.J. Soh, M.I. Ibrahim; "Small Rectangular Parasitic Plane with Diamond Patch Antenna", in Proceedings of the 6th National Conference on Telecommunication Technologies and 2nd Malaysia Conference on Photonics (NCTT-MCP2008), 26th - 28th Auguts 2008, Putrajaya.
- [75] N.A. Saidatul, **A.A.H. Azremi**, R.B. Ahmad, P.J. Soh; "A Design of Dual Band Sierpinski Carpet Fractal Planar Inverted F Antenna (PIFA) for GSM 1800/1900, UMTS and HiperLAN Application", in Proceedings of the International Symposium on Antennas and Propagation (ISAP2008), 27th – 30th October 2008, Taipei, Taiwan .
- [76] M.N. Siti Hasnah, P.J. Soh, **A.A.H. Azremi**, A.A.M. Ezanuddin; "Design of Meander on Slab Dielectric Resonator Antenna for UHF Handheld Radio Application", in Proceedings of the International Symposium on Antennas and Propagation (ISAP2008), 27th – 30th October 2008, Taipei, Taiwan .
- [77] H. Nornikman, P.J. Soh, **A.A.H. Azremi**, H.M.R. Nurul; "Parametric Study of a Pyramidal Microwave Absorber Design", in Proceedings of the International Symposium on Antennas and Propagation (ISAP2008), 27th – 30th October 2008, Taipei, Taiwan.
- [78] A.A.M. Ezanuddin, P.J. Soh, **A.A.H. Azremi**, Soo Liam Ooi; "Design and Analysis of a Novel Dielectric Loaded Helical Antenna for WLAN Applications", in Proceedings of the International Symposium on Antennas and Propagation (ISAP2008), 27th – 30th October 2008, Taipei, Taiwan.
- [79] **A.A.H. Azremi**, N.A. Saidatul, R.B. Ahmad, P.J. Soh; "A Parametric Study of Broadband Planar Inverted F Antenna (PIFA) for WLAN Applications", in Proceedings of the International Conference on Electronic Design (ICED2008), 3rd – 5th December 2008, Penang, Malaysia.
- [80] A.A.M. Ezanuddin, P.J. Soh, **A.A.H. Azremi**, M.Z.A. Abdul Aziz; "A BST Dielectric Loaded Helical Antenna for WLAN Application", in Proceedings of the IEEE International RF and Microwave Conference (RFM2008).
- [81] N.M. Natashah, M.I. Muammar, P.J. Soh, A.A.H. Azremi, A. Norhawati, "Design of a Microstrip Patch Antenna using Low Temperature Co-fired Ceramic Technology," in Proceedings of the International Conference on Electronic Design (ICED2008).
- [82] C.L. Leow, P.J. Soh, S. Carpenter, A.A.H. Azremi, A.A.M. Ezanuddin, "Design of Split Ring Resonator Filters for Interference Suppression in UWB", in Proceedings of the IEEE International RF and Microwave Conference (RFM2008).

Year: 2007

- [83] P.J. Soh , **A.A.H. Azremi**, H. Dayang, R. A. Rahim, M. T. Jusoh; "Simplified Modeling, Simulation and Performance Analysis using Circuit Model for a Corporate Feed Microstrip Patch Array", The Asia Modelling Symposium (AMS 2007), the First Asia International Conference on Modelling and Simulation, 27th – 30th March 2007, Phuket, Thailand.
- [84] N. A. Saidatul, **A.A.H. Azremi**, P.J. Soh; "A Hexagonal Fractal Antenna for Multiband Applications", in Proceedings of the International Conference on Intelligent and Advanced Systems (ICIAS 2007), 25th – 28th November 2007, Kuala Lumpur, Malaysia.
- [85] H. M. R Nurul, P.J. Soh, **A.A.H. Azremi**, N. A. Saidatul, S. R. Norra, M.I. Ibrahim, R. B Ahmad; "A Dual Band Planar Monopole Antenna with Inverted M Parasitic Plane", in Proceedings of the Asia Pacific Conference on Applied Electromagnetics (APACE 2007), 4th – 6th December 2007, Malacca, Malaysia.
- [86] S. R. Norra, **A.A.H. Azremi**, P.J. Soh, N. A. Saidatul, M.I. Ibrahim; "Small Rectangular Parasitic Plane as Patch Antenna Ground Plane for Broadband WLAN Application", in Proceedings of the Asia Pacific Conference on Applied Electromagnetics (APACE 2007), 4th – 6th December 2007, Malacca, Malaysia.
- [87] A. Hasnain, Z.S. Rohaiza, S. Roslan, M.I. Ibrahim, A.A. Takiyuddin, A. Rusnani, **A.A.H. Azremi**; "Preliminary Development of Mini Anechoic Chamber", in Proceedings of the Asia Pacific Conference on Applied Electromagnetics (APACE 2007), 4th – 6th December 2007, Malacca, Malaysia.
- [88] **A.A.H. Azremi**, P.J. Soh , H. Dayang, R.B. Ahmad, A.R.M. Saad; "Simulation and Fabrication of Basic Microstrip Antenna Shapes for Education Purposes", AESEAP Regional Symposium on Engineering Education (AESEAP 2007), 14th February 2007, Univ Malaya.
- [89] P.J. Soh , **A.A.H. Azremi**, H. Dayang, R. A. Rahim, M. T. Jusoh; "Performance Analysis and Prediction using Circuit Model in a Microstrip Patch Array", The 14th International Conference on Telecommunication and 8th M'sia International Conference on Communications (ICT-MICC 07), 14th – 17th May 2007, Penang, Malaysia.
- [90] N. A. Saidatul, **A.A.H. Azremi**, P.J. Soh; "Design of a Sierpinski Carpet Fractal Antenna for Multiband Applications", in Proceedings of the International Conference on Robotics, Vision and Signal Processing (ROVISP 2007), 28th – 30th November 2007, Penang, Malaysia.

Year: 2006

- [91] Chinmoy Das Gupta, R. Badlishah Ahmad, Anuar Mat Safar, **A.A.H. Azremi**; "Neural Network Study of Two Proposed Structures, 1. Truncated Conical Monopole, 2. Fan Beam Structure Fed by Metal Dielectric Feeder", in Proceedings of the 2nd International Waveform Diversity and Design Conference, Lihue, Hawaii, 22-27 Jan 2006.
- [92] **A.A.H. Azremi**; "An Investigation of Rayleigh Distribution in Reverberation Chamber," in Proceedings of the 2006 International Radio Frequency and Microwave Conference, 12th – 14th September 2006 in Kuala Lumpur.
- [93] M.N. Junita, M.S. Anuar, **A.A.H. Azremi**, A. Norsuhaida, S.H. Zarihan, M.N. Bukhairi; "A MIMO LMS Adaptive Equalization Approach in Simulated Radar Emission," in Proceedings of the 2006 International Radio Frequency and Microwave Conference, 12th – 14th September 2006 in Kuala Lumpur.
- [94] S. A. Aljunid, M. K. Abdullah, H. K. Dayang, S. Zarihan,, M. S. Anuar, **A.A.H. Azremi** ; "The Potentials of OCDM Technique

- for Local Area Network”, in Proceedings of the 2006 International Radio Frequency and Microwave Conference, 12th – 14th September 2006 in Kuala Lumpur.
- [95] Junita Mohd Nordin, Anuar Mat Safar, Norsuhaida Ahmad, Sharifah Zarihan Syed Zaharim Helmi, Meor Bukhari Mohd Nordin, **A.A.H. Azremi**; “Simulated Radar Emission Environment: A MIMO Adaptive Equalization Approach”; in Proceedings of the 2006 International Conference on Computer and Communication Engineering, 9th-11th May, 2006 in Kuala Lumpur.
- [96] P.J Soh, M.K. A. Rahim, A. Asrokin, M.R. Ahmad, **A.A.H. Azremi**, M.T Jusoh, N. Aminuddin; “Indoor Propagation Study at 2.4 GHz using a Proximity Coupled Microstrip Patch Antenna”, in Proceedings of the International Conference on Science and Technology ICSTIE 06, 8th – 9th December 2006 in Penang.

Year: 2005

- [97] **A.A.H. Azremi**; H-Ghafouri Shiraz; P.S.Hall, “Reverberation Chamber for Efficiency Measurement of Small Antennas,” in Proceedings of the 1st Conference on Computers, Communications and Signal Processing with Special Track on Biomedical Engineering, 14th-16th November 2005 in Kuala Lumpur, Malaysia, pp 25-29.
- [98] **A.A.H. Azremi**; H-Ghafouri Shiraz; P.S.Hall, “Small Antenna Efficiency using the Reverberation Chamber and the Wheeler Cap methods,” in Proceedings of the 13th IEEE International Conference on Networks and the 2005 7th Malaysia International Conference on Communications, 16th-18th November 2005 in Kuala Lumpur, Malaysia, pp 12-16.
- [99] **A.A.H. Azremi**; H-Ghafouri Shiraz; P.S.Hall, “A Comparative Study of Small Antenna Efficiency Measurements” in Proceedings of the 2005 Asia Pacific Conference on Applied Electromagnetics, 20th – 21st December 2005 in Johor Bharu, Malaysia.



NATIONAL CONFERENCE PROCEEDING : 9

Year: 2009

- [1] H.Nornikman, P.J Soh, **A.A.H. Azremi**, F.H Wee (2009). Design of a Pyramidal Microwave Absorber Using Agriculture Waste with Different Resin Content Percentage. Malaysian Technical Universities' Conference and Exhibition on Engineering and Technology. June 20th – 22nd, Kuantan, Malaysia.

Year: 2008

- [2] S. R Norra , **A.A.H. Azremi**, P.J. Soh, N.A. Saidatul; "Simulation of Contacting Feed Printed Bow Tie Antennas for WLAN Application", in Proceedings of the 2nd Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2008), 8th - 10th March 2008, Kuala Perlis, Perlis.
- [3] P.J. Soh, R.A.J.A Amir, M.M. Aiza, **A.A.H. Azremi**; "Performance Simulation and Modeling of Microstrip Dipole Antenna for WLAN Application", in Proceedings of the 2nd Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2008), 8th - 10th March 2008, Kuala Perlis, Perlis.
- [4] M.A.A. Halim, Y. Mashor, **A.A.H. Azremi**; "Study on Optimization of Wireless Power Transmission", in Proceedings of the 2nd Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2008), 8th - 10th March 2008, Kuala Perlis, Perlis.
- [5] M.I. Imran, M.Z.A. Abd Aziz, A.S. Ja'afar, A. Hasnain, **A.A.H. Azremi**, P.J. Soh; "On the Design, Fabrication and Measurement of Microwave Absorbers", in Proceedings of the 2nd Malaysian Technical Universities Conference on Engineering and Technology (MUCET 2008), 8th - 10th March 2008, Kuala Perlis, Perlis.

Year: 2007

- [6] **A.A.H. Azremi**, P.J. Soh , H. Dayang, R. A. Rahim, M. T. Jusoh, R.B. Ahmad; "Design and Comparison of Rectangular and Circular Corporate Feed Microstrip Patch Array for UMTS Wireless Application", Conference on IT Research and Applications (CITRA 2007), 4th – 5th April 2007, Subang Jaya.
- [7] N.A. Saidatul, R.B. Ahmad, **A.A.H. Azremi**, P.J. Soh, S.R. Norra; "A Broadband Planar Inverted F Antenna for WLAN Application", in Proceedings of the 3rd Colloquium in Engineering Technology (CET 2007), 10th December 2007, Kangar, Perlis.

Year: 2006

- [8] Sohiful Anuar Zainol Murad; Noor Hasnizam Hanafi; **Azremi Abdullah Al-Hadi**, "Collaboration between University Industry for Engineering Student ," in Proceedings of the 2006 National Student Development Conference (NASDEC 2006), 8th-9th August 2006 in Kuala Lumpur.
- [9] P.J. Soh , **A.A.H. Azremi**, H. Dayang, R. A. Rahim, M. T. Jusoh; "Performance Comparison of Serial and Corporate Feeding Networks in a Microstrip Patch Antenna Array", in Proceedings of the 1st Malaysian Technical University Colleges Annual Conference on Engineering and Technology (MUCET 2006), 19th – 20th Dec 2006, Batu Pahat, Johor.