

CURRICULUM VITAE

PERSONAL DETAILS

NAME: Abdulraqeb Shaif Ahmed Alhammadi
ADDRESS: B-12-5, Pearl Avenue, Sg Chua
Jalan Pasir Emas, Taman Berjaya
43000, Kajang, Selangor, Malaysia
TELEPHONE (H/P) +6013-3951322
EMAIL: abdulraqeb.alhammadi@gmail.com
MARITAL STATUS: Married



EDUCATION

On Going PhD in Engineering (Wireless Communication), Multimedia University, Cyberjaya, Malaysia (Status: Thesis Writing)
January, 2019 Master of Science in Communication and Network Engineering, University Putra Malaysia, Serdang, Malaysia
July, 2015 Master of Engineering Science (By Research), Multimedia University, Cyberjaya, Malaysia
April, 2011 Bachelor of Engineering (honors) Electronics majoring in Telecommunications, Multimedia University, Melaka, Malaysia.
January, 2007 Foundation in Engineering, Multimedia University, Malaysia

WORKING EXPERIENCE

Oct 2017 to April 2019	Research Scholar	Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia
Nov. 2011 to Sep 2017	Graduate Research Assistant	Faculty of Engineering, Multimedia University, Cyberjaya, Malaysia
Jan 2012 to Oct 2013	Tutor	Faculty of Engineering, Multimedia University
May 2011 to Oct. 2011	Research Scholar	Faculty of Eng. and technology, Multimedia University, Melaka
Jan, 2009 to Apr, 2010	Arabic Language Teacher	Arabic Language Society, Multimedia University, Melaka, Malaysia
May 2011 to Oct, 2010	Trainee	MTN-Yemen Telecommunication Company, Sana'a, Yemen

MAIN DUTIES AND RESPONSIBILITIES

Perform the following activities in conjunction with the project leader:

- Taking a leading role in the planning and conduct of assigned research individually or jointly in accordance with the project deliverables and project/group research strategy.
- Taking a leading role in the acquisition, set up, maintenance and integration of experimental apparatus or computational kit, or in setting up theoretical models or analysis strategies.
- Document research output including analysis and interpretation of all data, maintaining records and databases, drafting technical/progress reports and papers as appropriate.
- Presentation of work at international and national conferences, at internal and external seminars, colloquia and workshops to develop and enhance our research profile.
- Taking a leading role in the identification of potential funding sources and to assist in the development of proposals to secure funding from internal and external bodies to support future research.
- Taking the lead in the organisation, supervision, mentoring and training of undergraduate and/or postgraduate students and less experienced members of the project team to ensure their effective development.
- Performing administrative tasks related to the activities of the research group and university.
- Keep up to date with current knowledge and recent advances in the field/discipline.
- Engagement in personal, professional and career development, to enhance both specialist and transferable skills in accordance with desired career trajectory.

TEACHING EXPERIENCES

Engineering Mathematics I

Field Theory

Antenna and Propagation

Electricity and magnetism

SUPERVISION

- Bachelor degree - Fatin Farhana Binti Ruslan “Signal detection using universal software radio peripheral in 1.8 GHZ to 2.2 GHZ” 2015
- Master degree - Saddam Alraiah “ Indoor localization system using local area network” October, 2016

GRANTS

Title	Position	Granted from	Year
Algorithm and scheme for Efficient Spectrum Utilization of 4G/5G D2D Communication.	RS	TM R&D	2017 to 2019
Efficient algorithm for spectrum mobility of cognitive radio in 4G Long Term Evolution-Advanced (LTE-A) wireless Networks using USRP.	GRA	MOHE	2015 to 2017
Adaptive localization techniques based on radio frequency fingerprint for WLAN.	GRA	MOHE	2012 to 2015

Modelling and optimization of indoor electromagnetic propagation.	RS	TM R&D	2011
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RESEARCH INTEREST

Localization System, Indoor Propagation Modeling, Cognitive Radio, Resource Management Spectrum, Heterogeneous Networks.

LANGUAGES

Arabic (Native)

English (Excellent)

Bahasa Malayu (Basic)

WORKSHOP AND SEMINARS

- UK-Vietnam Researcher Links Regional Workshop”Advanced 5G Wireless Technologies for Smart Road-Traffic Control and Transportation Infrastructure Monitoring Systems. 22/10/2018 – 25/10/2018, at The University of Transportation and Communications (UTC), Hanoi, Vietnam
- Leadership camp 2017, 11 March 2017 UPM, Serdang, Malaysia
- Muslim youth conference” Nama’a” 7- 11 February 2017, Cherating, Pahang
- “Big data transforming enterprise business today” 9 January 2017, by Kelly Wee, Chief Information Officer, Huawei technology.
- Government linked universities, Management forum 2016, Putrajaya, Malaysia, 21 Nov. 2016.
- Conference and workshop on “ youth in digital world” Bangi , Malaysia, 10-11Nov. 2016.
- Workshop on “ Writing grant proposal for young researchers” MMU, Cyberjaya, Malaysia, 9 Nov. 2016.
- Student congress is an annual activity by IEEE Malaysia Section, Bukit Jalil, Malaysia, 15 Oct. 2016
- Site Visit to Teleport and Broadcast Center, Measat, Cyberjaya, 7 Oct. 2016
- APSCC youth development satellite communication workshop, KL, 6 Oct. 2016
- Seminar on “Design of Grid Connected Solar System”, Cyberjaya, 7 Sep. 2016
- Seminar on “Forget big data, think about big bandwidth”, MMU, Cyberjaya, May 2016
- Brain Science Talk, IEEE MMU Branch, March 2016
- IEEE Leadership Camp, IEEE Malaysia Section, UKM, Bangi, 2016
- Financial Management, UniTen, 2015
- 5G Talk : Wireless Communication Center, (MMU), 2015
- International Student Camp, WAMY, Cyberjaya, 2015
- Training on Management Skills, Qodorat for Administrative Development, 2015
- Training on Leadership Skills, Qodorat for Administrative Development, 2014
- Five Principles of Human Excellence, WAMY, Cyberjaya, 2014
- Youth Forum, Awareness org. UIA, Gombak, 2014

- Publication Workshop ISC-UTM, KL 2014
- Time Management Workshop, MMU - Cyberjaya, 2013
- Training on Personal Strategic Planning International Academy for PT & LD, 2013
- Workshop on Structural Equation Modeling, Yemen Students Union, 2012
- Matlab Workshop, Institute of Engineering and Technology, 2007

PUBLICATIONS:

International Journals:

1. **A. Abdulraqueb**, R. Mardeni and A.M. Yusoff and S. Ibraheem and S. Khalid, "Auto Tuning Self-Optimization Algorithm for Mobility Management in LTE-A and 5G HetNets" IEEE Access (under review).
2. **Abdulraqueb Alhammadi**, Fazirulhisyam Hashim, Mohd Fadlee and Saddam Alraiah "Robust 3D Indoor Positioning and Tracking System based on Radio Map using Bayesian Inference" International Journal of Distributed Sensor Networks (Accepted in Press).
3. Ibraheem Shayea, Mahamod Ismail, Rosdiadee Nordin, Mustafa Ergen, Norulhusna Ahmad, Nor Fadzilah Abdullah, **Abdulraqueb Alhammadi** and Hafizal Mohamad "New Weight Function for Adapting Handover Margin Level over Contiguous Carrier Aggregation Deployment Scenarios in LTE-Advanced System" Wireless Personal Communications , pp1-21, 2019. (ISI/Scopus Indexed Q3)
4. **A. Abdulraqueb**, R. Mardeni, A. M. Yusoff, S. Ibraheem, A. Saddam "Optimization of Handover Control Parameters For Mobility Management In 5g Hetnets" Automatic control and computer sciences, 53(5):441-451, 2019. (ISI/Scopus Indexed Q3)
5. **Abdulraqueb Alhammadi**, Mardeni Roslee, Mohamad Yusoff Alias, Khalid Sheikhidris "An Intelligent Spectrum Handoff Scheme Based on Multiple Attributes Decision Making for LTE-A Network" International Journal of Electrical and Computer Engineering, 9(6):5330-5339, 2019. (Scopus Indexed Q2)
6. **Alhammadi. A** , Fazirul, Fadlee and Saddam. "Analysis of Impact of RSS over Different Time Durations in an Indoor Localization System" Lecture Notes in Computer Science, Springer, Cham. P. 200-211, 2017. (ISI/Scopus Indexed Q3)
7. Mardeni R., **Abdulraqueb A.**, M.Y.Alias, P. U. Nmenme (Dec16), Analysis of Spectrum Handoff Schemes in Cognitive Radio Network Using Particle Swarm Optimization, International Journal of Engineering & Technology IJET-IJENS, ISSN: 2077-1185, p. 35-30 Vol:16 No:06,2016. (None Indexed)
8. Mardeni R., **Abdulraqueb A.**, M.Y.Alias, P. U. Nmenme (Dec16), Fuzzy Logic Based Negotiation Approach for Cognitive Radio Network in LTE-A, International Journal of Engineering & Technology IJET-IJENS, ISSN: 2077-1185, p. 30-34Vol:16 No:06,2016. (None Indexed)
9. Mardeni Roslee, **Abdulraqueb Alhammadi**, Fatin Farhana Ruslan, Khairil Anuar, Mohammad Yusoff Alias and Hafizal Mohamad" Analysis of LTE-A Signal Strength in Indoor Mobility Environment" Advance Science letters, 2017. (Scopus Indexed Q4)
10. **Alhammadi. A** ; Alias. M.Y; Tan S. W and Sapumohotti. C "An enhanced Localisation System for Indoor Environment using Clustering Technique". International Journal of Computational Vision and Robotics (IJCVR), Vol. 7 No. 1/2. P.83-98.2017. (Scopus Indexed Q3)
11. **Alhammadi, A.**, H, F., Fadlee, M. & Shami, T. "An Adaptive Localization System Using Particle Swarm Optimization in a Circular Distribution Form", Jurnal Teknologi (Sciences and Engineering),vol 78, 3-9, p. 105- 110, 2016. (Scopus Indexed Q2)

International Conferences:

1. **Abdulraqueb Alhammadi**, Mardeni Roslee, Mohamad Yusoff Alias, Ibrahim Shayea and Saddam Alraiah "Advanced Handover Self-Optimization Approach for 4G/5G HetNets Using Weighted Fuzzy Logic Control" 15th IEEE International Conference on Telecommunications (ConTEL), Graz, Austria, 3-5 July 2019.

2. **Abdulraqeb Alhammadi**, Saddam Alraiah, Fazirulhisyam Hashim and Mohd. Fadlee “Robust 3D Indoor Positioning System Based on Radio Map Using Bayesian Network” 5th IEEE World Forum on IoT, Ireland, 15 -18 April 2019.
3. **Abdulraqeb Alhammadi**, Mardeni Roslee, Mohamad Yusoff Alias, Ibrahim Shayea and Saddam Alraiah “Dynamic Handover Control Parameters for LTE-A/5G Mobile Communications” IEEE International conference on Advances in Wireless and Optical Communications (RTUWO), Latvia 15 Nov 2018.
4. A. M. Al-Samman, T. A. Rahman, M. H. Azmi, A. Sharaf, Y. Yamada and **A. Alhammadi**, "Path loss model in indoor environment at 40 GHz for 5G wireless network," 2018 IEEE 14th International Colloquium on Signal Processing & Its Applications (CSPA), Batu Feringghi, 2018, pp. 7-12.
5. **Abdulraqeb Alhammadi**, Mardeni Roslee, Mohamad Yusoff Alias and Khalid Sheikhidris, Hafizal Mohamad and Ibraheem Shayea “Efficient Spectrum Handoff Scheme Using Fuzzy Decision Making in Cognitive LTE-A Radio Network” 2017 3rd IEEE International Conference on Frontiers of Signal Processing (ICFSP 2017) in Paris, France, September 6-8, 2017.
6. Saddam Alraih, **Abdulraqeb Alhammadi**, Ibraheem Shayea and Ahmed M. Al-Samman “Improving Accuracy in Indoor Localization System Using Fingerprinting” The 8th IEEE International Conference on ICT Convergence October 18-20, 2017 / Jeju Island, Korea.
7. **Alhammadi. A** , Fazirul, Fadhlee and Saddam. “Analysis of effect RSS indoor environment using Bayesian network” 17th International Conference on Computational Science and Applications (ICCSA 2017) Trieste, Italy 3 - 6, 2017.
8. **Alhammadi. A** , Fazirul, Fadhlee and Saddam. “A new indoor localization system using Bayesian graphical model” IEEE international Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), Chennai-603110, India, from March 22 to 24, 2017.
9. **Abdulraqeb Alhammadi**, Mardeni Roslee and Mohamad Yusoff Alias” Analysis of Spectrum Handoff Schemes in Cognitive Radio Network Using Particle Swarm Optimization” 2016 IEEE 3rd International Symposium on Telecommunication Technologies (ISTT), 28 - 30 November 2016, Kuala Lumpur, Malaysia.
10. **Abdulraqeb Alhammadi**, Mardeni Roslee and Mohamad Yusoff Alias” Fuzzy Logic Based Negotiation Approach for Spectrum Handoff in Cognitive Radio Network” 2016 IEEE 3rd International Symposium on Telecommunication Technologies (ISTT), 28 - 30 November 2016, Kuala Lumpur, Malaysia.
11. Mardeni Roslee, **Abdulraqeb Alhammadi**, Fatin Farhana Ruslan, Khairil Anuar, Mohammad Yusoff Alias and Hafizal Mohamad” Analysis of LTE-A Signal Strength in Indoor Mobility Environment” ICCSE 2016 International Conference on Computational Science and Engineering 2016. 28 - 30 November 2016, Kota Kinabalu, Malaysia.
12. **Alhammadi. A** , Fazirul, Fadhlee and saddam “Effects of Different Types of RSS Data on the System Accuracy of Indoor Localization System” 2016 IEEE Region 10 Symposium, Bali, Indonesia.
13. **Alhammadi, A.**, H, F., & Shami, T. “Indoor localization system using particle swarm optimization” International Conference on Innovation in Science and Technology, IICIST 2015 Proceedings , 20th April 2015, Kuala Lumpur, Malaysia, pp 574-577
14. **Alhammadi. A** ; Alias. M.Y; Tan S. W and Sapumohotti. C “Enhanced Indoor Localization System for Multi-Floor Environment using Clustering Techniques” 1 st International Conference of Recent Trends in Information and Communication Technologies, Malaysia, pp 37-47, 2013.
15. **Alhammadi, A.**, Alias, M. Y., & Wei, T. S. “Impact of Floor Attenuation Factor on Indoor Localization Accuracy for Multi-floor Environment”. Progress In Electromagnetics Research Symposium Abstracts, Taipei, March 25–28, 2013, Session 1P3b Wireless Communication, Propagation Prediction, 115.

AWARDS:

- Silver Medal-Research Innovation Commercialization & Entrepreneurship Showcase (RICES), Multimedia University, 2018.
- Exemplary Student Branch Award, 2017, IEEE Region 10.
- Outstanding IEEE Student Branch Award, 2017, IEEE Malaysia section.
- Exemplary student branch award, 2016, IEEE Malaysia section.
- Initiative Researcher, 2016 from Arid- Arab Researcher ID.
- Ministry of higher education scholarship award- Yemen, 2013
- Ministry of higher education scholarship award - Yemen, 2005

SKILLS

- Competent in MS Word, PowerPoint, Excel
- Researching and Organizing, Coordinating skills
- Analyzing, Visualizing and Planning skills
- Good foundation in MATLAB, assembly, C and C++ programming
- Experience in Bayesian Network (probability estimation)
- Good communication skills
- Troubleshooting skills and quick problem-solving ability
- Flexibility to work in a team or independently.

ACTIVITIES AND LEADERSHIP SKILLS

15 March to Present	Committee Member	Student Activity Committee- IEEE Malaysia section
August 2017 to Present	Advisor	IEEE MMU Branch, Multimedia University, Cyberjaya
Jan 2016 to August 2017	Chair	IEEE MMU Branch, Multimedia University, Cyberjaya
Jan 2011 to Present	Director	(WAMY) - Cyberjaya
Jan to Dec 2010	Vice President	History Society, Multimedia University, Melaka
Aug 2009	Activities Advisor	History Society, Multimedia University, Melaka

PROFESSIONAL ACTIVITIES

Program committee

5th International Conference on Energy & Environment 2019, Bangi, Malaysia

Secretariat

2016 IEEE 3rd International Symposium on Telecommunication Technologies (ISTT), AnCasa Hotel, Kuala Lumpur.

Coordinator

Final year project competition, FYP 2016, IEEE Malaysia section

General Chair

Seminar on “Design of Grid Connected Solar System”, Cyberjaya, Multimedia University, 7 Sep. 2016

Assistant Publication Chair

2015 IEEE Conference on Sustainable Utilization And Development In Engineering and Technology (CSUDET), Bangi, Selangore.

REVIEW ACTIVITIES

- IEEE Communication Letters
- IEEE Access
- International Journal of Distributed Sensor Networks
- International Journal of Ad Hoc and Ubiquitous Computing
- Turkish Journal of Electrical Engineering & Computer Sciences
- International Journal of Information and Communication Technology
- Jurnal Teknologi
- International Journal of Applied Sensors
- International Journal of Systems Science

- International Journal of Ad Hoc and Ubiquitous Computing
- International Journal of Information and Communication Technology
- IEEE Colloquium on Signal Processing and its Applications

PROFESSIONAL MEMBERSHIP

IAENG, Member, Hong Kong

IEEE, Graduate Student Member, USA

IEICE, Member, Japan

IACSIT, Student Member, Singapore

REFERENCE 1:

Prof. Dr. Mohamad Yusoff Alias
Dean, Institute for Postgraduate Students
Multimedia University, Cyberjaya
Selangor, Malaysia
E-mail: yusof@mmu.edu.my
Tel: +603-8312 5342

REFERENCE 2:

Dr. Fazirulhisyam Hashim
Senior Lecturer
University Putra Malaysia, Serdang
Selangor, Malaysia
E-mail: fazirul@upm.edu.my
Tel: +603-9769 4319