

Academic Curriculum Vitae



Personal Information:

Full Name: Dr. Jalal Jamal Hamad Ameen

Academic Title: Assistant Professor

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Education:

- BSc. In Electronics and Communications engineering, College of engineering, University of Salahaddin, Erbil, Iraq, 1991
- MSc. In communications engineering, electrical and electronics engineering, university of technology, Baghdad, Iraq, 2004
- PhD in wireless and mobile systems, School of electrical and electronics engineering, university Sains Malaysia (USM), Penang, Malaysia, 2012

Employment:

- Lab. Lecturer in Electrical Engineering Department, College of Engineering, University of Salahaddin, Kurdistan region, Erbil city, Iraq, 1992-2002
- Assistant Lecturer in Electrical Engineering Department, College of Engineering, University of Salahaddin, Kurdistan region, Erbil city, Iraq, 2004-2009
- Academic staff in Electrical Engineering Department, College of Engineering, University of Salahaddin, Kurdistan region, Erbil city, Iraq, 2012- continue

Qualifications

- Analog and digital communications, Wireless and mobile systems, Satellite systems, Radar systems, Microwave engineering, Optical fiber communications, analog and digital electronics.
- MATLAB package, MS office, OPNET, Opti System

- English course level four, Arabic, Kurdish, Malay (Medium)
- Installation of VSAT systems, PBXs, Optical fiber systems, Mobile systems

Teaching experience:

- Analog and digital communications, Satellite systems, Radar systems, Microwave engineering, Optical fiber communications, analog and digital electronics (UG), Wireless and mobile systems, Advanced Optical communications, HetNets (PG),
- Electronics and communications lab.

Research and publications

Comparative study of polyphase codes for CDMA systems (M.Sc. Thesis)	Erbil - Iraq	2004	2004
Polyphase spreading sequences for CDMA wireless applications	Information Technology Journal / University of Technology/ Baghdad	2005	29-6-2005
Polyphase Barker and Willard spreading sequence codes	TELE-INFO '06 Istanbul / WSEAS Transaction Journal	2006	29-5-2006
Dispersion and InterSymbol Interference (ISI) in Optical Fibers	ICCCP'07 / IEEE conference / Muscat / Oman	2007	21-2-2007
Cell Planning in GSM Mobiles	TELE-INFO '08 Istanbul / WSEAS Transaction Journal	2008	29-5-2008
Minimization of Co-channel and Adjacent channel Interference and Signal Improvement Based on Cell Planning for 4G Mobile System	Proceedings of the Electrical and Electronic Postgraduate Colloquium EEPCC2009/Penang/ Malaysia	2009	2 November 2009

Signal-to-Interference Ratio (SIR) Improvement Based on Cell Planning for 4G Mobile System	Wireless World Research Forum 24 (WWRWF#24), Working Group 2 (WG2)/Penang / Malaysia	2010	12-14th April, 2010
Radio access network (RAN) architecture development for a 4G Mobile system with reduced interference	Journal of Electrical and Electronics Engineering Research Vol. 3(1), pp. 11-17, January, 2011 Available online at http://www.academicjournals.org/jeeer ISSN 2141-2367 ©2011 Academic Journals	2011	January, 2011
Malaysia Toward 4G Mobile System Through Mini Backbone Radio Access Network Radio over Fiber, Challenges, Solutions and Key Technologies Requirements	Journal Teknologi, 55 (Sains & Kej.) Keluaran Khas (1), Mei 2011, 141-153, Universiti Teknologi Malaysia (UTM)	2011	May, 2011
Multi-band Carrier Code Division Multiple Access for 4G Mobile System with Improved Signal Quality	World Applied Sciences Journal 12 (3): 330-335, 2011 ISSN 1818-4952 © IDOSI Publications, 2011	2011	2011
Radio Access Network Power Management Considering Radio over Fiber Technique for 4G Mobile System	WSEAS TRANSACTIONS on COMMUNICATIONS, Issue 3, Volume 10, March 2011, 100-107	2011	March, 2011
Design and Optimization of Radio Access Network Based on Cell Planning With New Multiple Access Technique for 4 th Generation Mobile System (PhD Thesis)	Universiti Sains Malaysia (USM)	2012	October, 2012

Reduction of Cell Phone Electromagnetic Radiation Effect on Human Body	International Journal of Sciences, Volume 3, Number 3, 2014, pp. 19-23	2014	March, 2014
8 x 8 MIMO System Transmission Characteristics with MC-CDMA Multiplexing For Next Generation Mobile System	International Journal of Systems Signal Control and Engineering Application, Vol. 8, Issue 5, pages 19-23, 2015	2015	2015
5G Next Generation Mobile Wireless Technology with Massive MIMO Continue 4G Revolution, Key Technologies and Challenges	Asian Academic Research Journal of Multidisciplinary Vol. 1, Issue 30, Feb. 2015, pages 586-595, ISSN : 2319-2801	2015	Feb, 2015
Rain Effect on Ku-Band Satellite System	Third International Conference on Emerging Trends in Electrical , Electronics & Instrumentation Engineering (EEI 2015), Dubai, 24-25/April, 2015	2015	April, 2015
COMPARATIVE STUDY OF MOBILE DEVICES ' WITH RESPECT TO EM PARAMETERS AND SUCCESIVE ABSORPTION RATE (SAR	SYLWAN journal (ISSN: 0039-7660, Vol. 160, Issue. 6, pages 320-334, 2016	2016	June, 2016
Next Generation Wireless Systems Antenna with Improved Coverage Using Beamforming Techniques	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (Vol. 6, Issue 5, May 2017)	2017	May, 2017

<p>Design and Simulation of Multiband M Shaped Vivladi Antenna</p>	<p>Advances in Intelligent Systems and Computing, Vol. 736, Springer International Publishing AG, part of Springer Nature 2018 A. Abraham et al. (Eds.): ISDA 2017, AISC 736, pp. 903–912, 2018. https://doi.org/10.1007/978-3-319-76348-4_86</p>	<p>2018</p>	<p>March , 2018</p>
<p>Dispersion Compensating Radio over Fiber (RoF) for 5G Radio Access Network</p>	<p>ZANCO Journal of Pure and Applied Sciences The official scientific journal of Salahaddin University-Erbil ZJPAS (2018), 30 (2); 8-16 http://dx.doi.org/10.21271/ZJPAS.30.2.2</p>	<p>2018</p>	<p>May , 2018</p>
<p>Improved data rate 5G c-node-b design with 64x64 MIMO</p>	<p>ZANCO Journal of Pure and Applied Sciences The official scientific journal of Salahaddin University-Erbil ZJPAS (2019), 31 (s3); 8-16 ISSN (print):2218-0230, ISSN (online): 2412-3986, DOI: http://dx.doi.org/10.21271/zjpas, pages 89-94</p>	<p>2019</p>	<p>May , 2019</p>

<p>Study of Fault Detection Techniques for Optical Fibers</p>	<p>ZANCO Journal of Pure and Applied Sciences</p> <p>The official scientific journal of Salahaddin University-Erbil ZJPAS (2019), 31 (s3); 8-16 ISSN (print):2218-0230, ISSN (online): 2412-3986, DOI: http://dx.doi.org/10.21271/zjpas, pages 143-149</p>	<p>2019</p>	<p>May , 2019</p>
<p>WI-MAX NETWORK SIMULATION FOR SALAHADDIN UNIVERSITY NEW CAMPUS</p>	<p>Kufa Journal of Engineering Vol. 12, No. 4, October 2021, P.P. 1-13 Article history: Received 10 August 2020, accepted 22 October 2020</p>	<p>2021</p>	<p>October, 2021</p>
<p>Performance Analysis of Different Flexible Decoding Algorithms for NR-LDPC Codes</p>	<p>Tikrit Journal of Engineering Sciences (TJES) , Vol. 29, No. 4, 2022</p>	<p>2022</p>	<p>2022</p>
<p>An investigation of low-density parity-check codes and polar codes for future communication systems</p>	<p>Indonesian Journal of Electrical Engineering and Computer Science Vol. 30, No. 1, April 2023, pp. 110~120 ISSN: 2502-4752, DOI: 10.11591/ijeecs.v30.i1.pp110-120</p>	<p>2023</p>	<p>April, 2023</p>

Performance Evaluation of 64 x 64 c node-B Antenna Beamforming for 5G Mobile System	Iraqi Journal of Computers, Communications, Control & Systems Engineering (IJCCCE), Vol. 23, No. 1, March 2023 DOI: https://doi.org/10.33103/uot.ijccce.23.1.8	2023	
Interference Effect Evaluation with Radio over Fiber in 5G Mobile System	Iraqi Journal of Computers, Communications, Control & Systems Engineering (IJCCCE), Vol. 23, No. 1, March 2023 DOI: https://doi.org/10.33103/uot.ijccce.23.1.7	2023	

Conferences and courses attended

TELE-INFO '06 Istanbul / WSEAS Transaction Journal	2006	29-5-2006
ICCCP'07 / IEEE conference / Muscat / Oman	2007	21-2-2007
TELE-INFO '08 Istanbul / WSEAS Transaction Journal	2008	29-5-2008
Proceedings of the Electrical and Electronic Postgraduate Colloquium EEPC2009/Penang/ Malaysia	2009	2 November 2009
Wireless World Research Forum 24 (WWRF#24), Working Group 2 (WG2)/Penang / Malaysia	2010	12-14th April, 2010
Third International Conference on Emerging Trends in Electrical , Electronics & Instrumentation Engineering (EEI 2015), Dubai, 24-25/April, 2015	2015	April, 2015

Advances in Intelligent Systems and Computing, Vol. 736, Springer International Publishing AG, part of Springer Nature 2018 A. Abraham et al. (Eds.): ISDA 2017, AISC 736, pp. 903–912, 2018. https://doi.org/10.1007/978-3-319-76348-4_86	2018	March , 2018
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Professional Social Network Accounts:

- [\(9\) Jalal J Hamad Ameen \(researchgate.net\)](#)
- [\(31\) Jalal Jamal | LinkedIn](#)
- [Asst. Prof. Dr. Jalal Jamal Hamad Ameen - Google Scholar](#)
- [Jalal J Ameen \(0000-0003-1880-4181\) \(orcid.org\)](#)