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## السيرة الذاتية

م.د. مصطفى اسماعيل سلمان

معاون العميد لشؤون الطلبة – كلية الهندسة، جامعة بغداد

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## ملخص السيرة الذاتية

الأسم	مصطفى إسماعيل سلمان
الشهادة	دكتوراه – جامعة بوتر ، ماليزيا 2015
التخصص الدقيق	هندسة إتصالات الحاسبات والشبكات
اللقب العلمي	مدرس
تاريخ التعيين	2003/6/8
الدرجة الوظيفية	الثالثة -1
مكان العمل	جامعة بغداد - كلية الهندسة – قسم الحاسبات
البحوث العلمية	16 بحث نشرت في مجلات ذات معامل تأثير وفي مؤتمرات عالمية رصينة
الجوائز	6 جوائز عالمية
H-index	6
الواجبات والمهام	- معاون عميد كلية الهندسة لشؤون الطلبة – 2020 ، مستمر - مسؤول وحدة التعليم الالكتروني – كلية الهندسة 2018 – 2020 - مهام تدريسية في قسم هندسة الحاسبات للمراحل الاولية والعليا . - الاشراف على طلاب الماجستير (4 طلاب) - رئاسة وعضوية العديد من اللجان على مستوى القسم والكلية والجامعة ، ومن اهمها: ○ عضو فريق تكنولوجيا المعلومات – جامعة بغداد ○ رئيس لجنة متابعة الانترنت – رئاسة جامعة بغداد 2018 - 2019 ○ رئيس لجنة الجودة – قسم هندسة الحاسبات – 2017-2018 ○ عضو اللجنة العلمية – قسم هندسة الحاسبات – 2016-2018 ○ رئيس لجنة الجودة – قسم هندسة الحاسبات – 2008-2010 ○ رئيس اللجنة الامتحانية – قسم هندسة الحاسبات 2003 – 2005 والعديد من اللجان الدائمة والمؤقتة الاخرى

وأدناه التفاصيل

## **MUSTAFA ISMAEL SALMAN, PhD**

*(Senior Lecturer-University of Baghdad, IRAQ)*

- E-mail: [mustafa.i.s@coeng.uobaghdad.edu.iq](mailto:mustafa.i.s@coeng.uobaghdad.edu.iq)



### **Personal Statement**

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For more than seven years, particularly from 2003-2010, I was employed as a senior lecturer in the Computer Engineering department, University of Baghdad, lecturing many computer and communications related subjects. Then, from Jan 2011 to May 2015, I was a full-time Ph.D. student in computer and communications engineering, University Putra Malaysia (UPM), which is one of top four research universities in Malaysia. My PhD program in wireless communication networks is conducted by course work with thesis. My PhD research mainly proposes a new energy-efficient transmission means for Green LTE cellular communications by using artificial intelligent techniques. During my doctoral research, I have published several technical articles in high impact-factor international journals. I have also participated and presented papers in many international conferences, specifically in Korea, France and Malaysia. Moreover, I have participated in many workshops, trainings and exhibitions related to my field of interest.

## Education

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Name, Place, and Country	Attended From /To		Degree Destinations Obtained	Main Course of Study
University Putra Malaysia Serdang-Malaysia	01/2011	10, 2015	<b>Ph.D.</b>	Computer and Communications Eng. - Wireless Communications
University of Al-Nahrain, Baghdad-Iraq	09/2000	03/2003	<b>M. Sc.</b>	Modern Communications Engineering
University of Al-Nahrain, Baghdad-Iraq	09/1997	07/2000	<b>B. Sc.</b>	Electronic and Communication Engineering

## Theses

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1. Salman, Mustafa I., "A self-Configured link adaptation with partial feedback for green LTE cellular systems", Unpublished Doctoral Dissertation, University Putra Malaysia.  
  
*# This PhD thesis has got an "outstanding PhD. Dissertation" award by IEEE Malaysia Communications Society and Vehicular Technology Society Joint Chapter – 2015. The Certificate of Excellence is given and will be available upon request.*
2. Salman, Mustafa I. (2003), "M.Sc. thesis titled: Design and implementation of packet switched spacecraft communications services protocols". Unpublished Master Dissertation, University of Al-Nahrain, IRAQ.

## Published Journal Papers

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1. **Muthafer, E., Salman, M.I. (2020)** "SDN-assisted Service Placement for the IoT-based Systems in Multiple Edge Servers Environment" Accepted in Journal of Computer Science, University of Baghdad. Scopus Indexed.
2. **Salman, M. I, Shaker, S. R. (2019).** "Link Failure Recovery for a Large-Scale Video Surveillance System Using a Software Defined Network". Accepted in journal of engineering, college of engineering, university of Baghdad.
3. **Shaker, S. R., Salman, M. I. (2019).**" A Software Defined Network of Video Surveillance System Based on Enhanced Routing Algorithms". Accepted to Baghdad Science Journal, Scopus indexed with cite score 0.19.

4. **Salman, Mustafa Ismael**, et al. "A Joint Evaluation of Energy-Efficient Downlink Scheduling and Partial CQI Feedback for LTE Video Transmission." *Wireless Personal Communications* 98.1 (2018): 189-211.
5. **Salman, Mustafa Ismael**, Muntadher Qasim Abdulhasan, Chee Kyun Ng, Nor Kamariah Noordin, Borhanuddin Mohd Ali, and Aduwati Sali. "A Partial Feedback Reporting Scheme for LTE Mobile Video Transmission with QoS Provisioning." *El-sevier-Computer Networks* (2016). **Impact Factor JCR-2015: 1.446 (Q2)**
6. **Salman, Mustafa Ismael**, Chee Kyun Ng, Nor Kamariah Noordin, Borhanuddin Mohd Ali, and Aduwati Sali. "A self-configured link adaptation for green LTE downlinks transmission." **Published** in *Transactions on Emerging Telecommunications Technologies* (2014) (x-title: *European transactions on telecommunications*). **Impact Factor JCR-2015: 1.295 (Q2)**
7. **Salman, Mustafa Ismael**, Muntadher Qasim Abdulhasan, Chee Kyun Ng, Nor Kamariah Noordin, Aduwati Sali, and Borhanuddin Mohd Ali. "Radio Resource Management for Green 3GPP Long Term Evolution Cellular Networks: Review and Trade-offs." **Published** in *IETE Technical Review* Vol. 30, no. 3 (2013). **Impact Factor JCR-2015: 1.304 (Q2)**
8. Abdulhasan, Muntadher Qasim, **Mustafa Ismael Salman**, Chee Kyun Ng, Nor Kamariah Noordin, Shaiful Jahari Hashim, and Fazirulhisham Hashim. "Review of Channel Quality Indicator Estimation Schemes for Multi-User MIMO in 3GPP LTE/LTE-A Systems." **Published** in *KSII Transactions on Internet & Information Systems* 8, no. 6 (2014). **Impact Factor JCR-2015: 0.365**
9. Abdulhasan, Muntadher Qasim, **Mustafa Ismael Salman**, Chee Kyun Ng, Nor Kamariah Noordin, Shaiful Jahari Hashim, and Fazirulhisham Hashim. "An Adaptive Threshold Feedback Compression Scheme Based on Channel Quality Indicator (CQI) in Long Term Evolution (LTE) System." **Published in** *Wireless Personal Communications* (2015): 1-27. **Impact Factor JCR-2015: 0.701**

### **Published Proceedings and Conference Presentations**

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1. **Salman, Mustafa Ismael**, Chee Kyun Ng, Nor Kamariah Noordin, Borhanuddin Mohd Ali, and Aduwati Sali. "Energy efficient transmission for LTE cellular system." In *Computer and Communication Engineering (ICCCE)*, Malaysia, 2012 International Conference on, pp. 222-227. IEEE, 2012.
2. **Salman, Mustafa Ismael**, Chee Kyun Ng, Nor Kamariah Noordin, Borhanuddin Mohd Ali, and Aduwati Sati. "CQI-MCS Mapping for Green LTE Downlink Transmission." *Proceedings of the Asia-Pacific Advanced Network* 36, Korea (2013): 74-82.
3. **Salman, Mustafa Ismael**, Chee Kyun Ng, and Nor Kamariah Noordin. "Energy-and Spectral-Efficient Wireless Cellular Networks." *Proceedings of the Green Communications and Networking, GreenNets*, colmar, France, 2011. <http://greenets.org/2011/index.shtml>.
4. **Salman, Mustafa Ismael**, Muntadher Q. Abdulhasan, Chee Kyun Ng, Nor Kamariah Noordin, Borhanuddin Mohd Ali, and Aduwati Sati. "Adaptive Threshold CQI Compression Scheme for LTE cellular Systems ." *Proceedings of the Asia-Pacific Advanced Network* 40, Malaysia (2015).
5. Abdulhasan, Muntadher Qasim, **Mustafa Ismael Salman**, Chee Kyun Ng, Nor Kamariah Noordin, Shaiful Jahari Hashim, and Fazirulhisham Bin Hashim. "Approximate Linear

Minimum Mean Square Error estimation based on Channel Quality Indicator feedback in LTE systems." In Communications (MICC), 2013 IEEE Malaysia International Conference on, pp. 446-451. IEEE, 2013.

6. Abdulhasan, MQ., **Salman, Mustafa Ismael.**, Ng, CK., Noordin, NK., Shaiful, JH., Fazirulhisham, BH., "A Threshold Feedback Compression Scheme of Channel Quality Indicator (CQI) in LTE Systems, ", 2013 IEEE Student Conference on Research & Development(SCOREd).
7. Thian, L. L., Ali M. Al-Saegh, K. F. Ramli, N. S. Ibrahim, A. Sali, and **Mustafa Ismael Salman.** "Energy-driven scheduling for Digital Video Broadcasting-Satellite Second Generation (DVB-S2)." In Space Science and Communication (IconSpace), 2013 IEEE International Conference on, pp. 385-390. IEEE, 2013.

### **Published Book Chapter**

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1. Salman, Mustafa Ismael, Chee Kyun Ng, and Nor Kamariah Noordin. "Energy-and Spectral-Efficient Wireless Cellular Networks." In Green Communications and Networking, pp. 171-185. Springer Berlin Heidelberg, 2012.

### **Honors and Awards**

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- Outstanding PhD. Dissertation award by IEEE Malaysia Communications Society and Vehicular Technology Society Joint Chapter – 2015. The Certificate of Excellence is given, and will be available upon request.
- Best paper award, for the paper entitled "Adaptive Threshold CQI Compression Scheme for LTE cellular Systems", 40<sup>th</sup> Asia-Pacific Advanced Network Meeting, Malaysia -2015.
- Silver Medal Award for innovation of "A self-Configured Link Adaptation for Green LTE Downlink Transmission" at Pameran Rekacipta, Penyelidikan dan Inovasi (PRPI-2014), on 30th September – 1st October 2014. University Putra Malaysia.
- Fellowship Delegate at the APAN36 meeting held at Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea, from 19th-23rd August 2013.
- Fellowship Delegate at the APAN40 meeting held at University of Malaya, Kuala Lumpur, Malaysia, from 10<sup>th</sup> -14<sup>th</sup> August 2015.
- Best Paper Award for the paper entitled " threshold feedback compression scheme of channel quality indicator (CQI) in LTE systems", of 2013 IEEE SCORED held at Palm Garden Hotel Putrajaya Malaysia, 16<sup>th</sup>-17<sup>th</sup> December 2013

### **Professional Experience**

Full Time Senior Lecturer (Faculty member) in the Computer Engineering Department

➤ Lecturing in the following subjects:

- **Internet and web technology**

*Internet architecture, Internet protocols, ARP, ICMP, IP, TCP, UDP, DHCP, DNS, Remote Access, Vsat, E-mail, FTP (File Transfer Protocols), Web servers and Web browsers, Web site development, HTML, ASP, PHP, Java script, Java applets, Internet and computer security.*

- **Computer networking**

*LANs, MANs, WANs, Protocol Suits and Layering Concepts, OSI Reference model, TCP/IP reference model, Circuit Switching, Packet Switching, Frame Relay and ATM, ATM reference model, SONET reference model, ...etc.*

- **Data Structures & Algorithms (C and C++)**

*Object oriented programming, Files (text files, sequential files, random access files), Graphics routines, Computer algorithms, Fundamentals of data structures (arrays, stacks & queues, linked list, trees, graphs, internal sorting, external sorting).*

- **Communication Systems: Analog and Digital Modulation Techniques**

*Amplitude Modulation, Angle Modulation, Noise in Communication systems, Digital Communication, Digital Carrier Modulation Scheme, Introduction to Information theory and Coding Information theory and Coding.*

- **Digital Signal Processing**

*Signals & systems, Fourier analysis, Transform analysis of systems, The DFT, The FFT, Design of non-recursive digital filters (FIR), Design of recursive digital filters (IIR), Continuous wavelet transform (CWT), Discrete wavelet transform (DWT).*

- **Engineering and Numerical Analysis**

*Fourier Series, Fourier Transform, Laplace Transform, Analytic Functions of Complex Variables, Z – Transform, Matrices, Numerical Methods. Numerical Integration and Differentiation, Solution of Equations, Matrices and related topics. System of Equations: Gaussian Elimination. Jacobi Iterative Method, Gauss-Seidal, ...etc.*

- **Coding theory and application**

*Introduction to error correction and reliable information transmission. Algebra of fields. Linear block code. Hamming code. Cyclic code. Introduction to BCH codes. Convolution code. ...etc.*

➤ **Supervision of master's degree theses, e.g.**

- A Software Defined Network of Video Surveillance System Based on Enhanced Routing Algorithms, 2017-2018
- Resource Allocation for Internet of Things framework with Edge Computing by Using a Software Defined Network, 2018-2019
- An Improved Virtual Data Center Based on Programming Protocol-Independent Packet Processor Technology, 2019-2020

➤ **Supervision of many bachelor's degree final year projects, e.g.**

- Client / Server based implementation of a university database center, 2003/2004.
- Design and implementation of a controlled web browser, 2003/2004.
- Java based messenger application, 2004/2005.
- Computer aided digital system design and implementation 2004/2005.
- Design and Implementation of up-link command communication protocol 2005/2006.
- Arduino Based Greenhouse Remote Monitoring and Controlling System, 2016-2017
- Object Tracking System Based On Color Recognition 2017-2018
- Real-Time Object Detection and Tracking System 2017-2018
- Smart Refrigerator for healthcare based on IoT Food Classification, 2018-2019
- VIRTUAL TELEPRESENCE USING RASPBERRY PI 3, 2019-2020

➤ **Administrative Activities:**

- Director of E-learning Unit, College of Engineering, University of Baghdad, 2018-
- Undergraduate program coordinator for two years.
- Head of Examination Committee for two years.
- Member of accounting and financial committee.
- Supervisor of electronic and communications laboratory.

**Sept 2001 – Febr 2003**

**University of Al-Nahrain**

**Baghdad / Iraq**

Part Time Lab Instructor in the Electronic and Communications Engineering Department

➤ Lecturing in the following subjects:

- Practical Microelectronics
- Practical Analog and Digital Modulation Schemes.
- Digital System design and implementation.



## Work Experience

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- Research related to wireless communications networks and big data mining techniques.
- Decision making and artificial intelligent techniques.
- Voice over IP (VoIP) and SIP Installation with the aid of several switching devices and routers.
- Website development including: HTML, Cascade Style Sheet (CSS), JavaScript, PHP & MySQL...etc
- Administration of communication and computer networks.
- Official operation management.
- Hardware / Software installation and services of computer.
- Professional User of Microsoft Office Applications: (Windows, Word, Excel, PowerPoint, Publisher...)
- Microsoft windows and Linux installation and Management
- Proofreading and editing of research articles using Microsoft word and LaTeX.
- Able to write programs and simulations by using:
  - Borland-C++ Language
  - Visual Basic Language
  - Matlab Package
  - AWK Language Programming

## Training, workshops and Seminars records - (*Certificates available upon request*).

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- **5<sup>th</sup> Generation International Mobile Telecommunication Seminar**, 27 May 2015, organized by Malaysian Technical Standards Forum Bhd (MTSFB).
- **Optimization with MATLAB** – A Hands-On Workshop, November 14, 2013, organized by IEEE Signal Processing Society Malaysia. The Venue is at the college of engineering, University Tenaga Nasional, Putrajaya Campus.
- **LTE Technology Short Course**, 10<sup>th</sup>-14<sup>th</sup> December, 2012. Organized by Malaysian Communication and Multimedia Commission (MCMC), at wireless communication center, Faculty of electrical engineering, University Technology Malaysia.
- **Open Standards & Internet Association**, in Asia-Pacific Advanced Network 36th Meeting, 19th – 23<sup>rd</sup> August, 2013. Jointly organized by Korea Institute of Science and Technology Information (KISTI) and Korea Advanced Institute of Science and Technology (KAIST). It is held at KAIST, Daejeon, Korea.
- **Managing the Research Journey**, 17<sup>th</sup>-18<sup>th</sup> March 2012. Jointly organized by the peer support group graduate school, University Putra Malaysia and the students' learning center, University of Otago, New Zealand.

- **Guides to Thesis Writing Seminar.** 24<sup>th</sup> March, 2011. Organized by school of graduate studies, University Putra Malaysia.
- **Avoiding Plagiarism Seminar.** 25<sup>th</sup> January, 2011. Organized by school of graduate studies, University Putra Malaysia.
- **Technical Writing with LaTeX,** 7th December 2013. Organized by Department of Computer and Communication Systems Engineering, University Putra Malaysia.
- **Satellite Receiving Technology.** Training course in Worldwide Satellite Ltd. Located in London specialized in programming, repairing, and sales of satellite receivers from 20/05/2006 to 20/09/2006.
- **MSCE Managing and Maintenance.** Participating in the following courses "MCSE Courses":  
From 01/06/2005 to 20/09/2005
  - Managing and Maintaining a Microsoft Windows Server 2003 Environment
  - Planning, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure
  - Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure
  - Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure

### **Knowledge of languages**

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- Mother Tongue: Arabic
- Other Language: English (Read, Write, Speak, and Understand), Good. TOEFL Paper Best Test (540).

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