

EDUCATION

- ⇒ PhD in Mission Critical Communications from University of South Wales, Faculty of Computing Engineering and Sciences (2014- till now). “Mission Critical Communication Networks: Simulation, Modeling and Performance Analysis”
- ⇒ Post Graduate Certificate in Developing Professional Practice in Higher Education. (PgCe DPPHE), University of South Wales, 2017.
- ⇒ Master of Information and Telecommunication Technologies (MSITT) with first Honor Degree at Athens Information Technology (AIT), 3.74/4.00 Athens-Greece July 2009.
- ⇒ BSc. Degree in Electrical and Computer Engineering Hashemite University, Al-Zarqa, Jordan Graduated on: 26 June 2005.

AWARDS AND SCHOLARSHIPS

- ⇒ Hashemite University assistantship to complete my graduate studies at AIT in Greece. 2007
- ⇒ Queen Rania Scholarship for Postgraduate studies.
- ⇒ Onassis foundation internship for a lecture series in Embedded Systems in Iraklion-Greece. 2008
- ⇒ Research Grant from Intracom telecom (leading communication company in Europe). 2009
- ⇒ Hashemite University Scholarship for a research program with the University of South Wales.

EXPERIENCE

- 2019-till now Assistant Professor in Electrical Engineering Department at Hashemite University.
- 2015-2017 Hourly Paid Lecturer at University of South Wales. Lecturer and Module Leader for “Mobile Communication Technologies Module”: teaching Master level students how to use mobile computing in designing system framework to process mobile networks data signaling.
- 2014-2015 Working at the Faculty of Engineering, Computing and Sciences as HPL for the following modules: Computer Literacy, Working with Computers Effectively.
- 2014-till now Research Student, University of South Wales- Working in a research project in developing mission critical communication systems over broadband 4G/5G communication Systems. In the project, a testbed that embeds multiple servers emulating the behavior of a core network. The project deployed utilizing multiple programming languages (JAVA, MATLAB, UNIX, SQL, C#) with all necessary interfaces. The traffic was generated using self-built traffic generator that is used as the data source able to synthesis tens of thousands of data signaling that is analyzed in another stage based on algorithms that statistically analyze the data.
- 2009-2014 Lecturer, *The Hashemite University* - I worked as a lecturer in the Electrical Engineering Department. I instructed the following courses: Electrical Circuits (1), Circuits for Non-Electrical Students, Signals and Systems, Engineering Mathematics, Electronics.
- 2008-2009 Research Assistant, Intracom Telecom and Athens Information Technology, Athens-Greece. A researcher in the Research and Development of Intracom Telecom Company and Athens Information Technology Institute, the project discussed the mobile broadband applications traffic demands.
- 2006-2007 Teaching Assistant and Lab Instructor, the Hashemite University, Jordan
Instructor in the Electrical Engineering Department of the Hashemite University.
- 2005-2006 Teaching Assistant , Jordan University of Science and Technology, Jordan.

TRAINING COURSES

- -Post Graduate certificate in developing professional practice in higher education institutes.
- - The Certificate of Teaching and Assessment Technologies in Higher Education systems, HU, Centre of Academic Assurance. Jordan 2009
- - Windows 2000 Network, CSCCS at HU. Jordan 2005
- - MATLAB programming, CSCCS at HU. Jordan 2005
- - Internet Core Computing Certificate (IC3) Administrator. Jordan 2007
- - Active participation in Onassis Foundation Training course in Crete-Greece. Which was entitled " Embedded networked Systems: Theory and Applications".

PUBLICATIONS:

- Ashraf A. Ali, Spyridon Vassilaras, Konstantinos Ntagkounakis, "A comparative study of bandwidth requirements of VoIP odecS over WiMAX access networks" NGMAST 2009 - 3rd International Conference on Next Generation Mobile Applications, Services and Technologies (2009).
- Ashraf A. Ali, Mazin Al Shamrani, Khalid Al-Begain "Evaluating SIP Signalling and QoS over LTE based Mission Critical Systems" NGMAST 15, Cambridge UK 2015.
- Edited Book: Khalid Al Begain, Ashraf Ali "Multimedia Services and Applications in Mission Critical Communication Systems" 2016, IGI-GLOBAL.
- Ashraf A. Ali, Alhad Kuwedekar, Khalid Al-Begain "IP Multimedia Subsystem SIP Registration Signalling Evaluation for Mission Critical Communication Systems" 8th International al Conference on Internet of Things (iThings 2015) Sydney Australia 2015.

- Ashraf A. Ali, Khalid Al-Begain “Scalability and Performance Analysis of SIP based Multimedia Services over Mission Critical Communication Systems” International Journal of Interactive Communication Systems and Technologies (IJICST) 2018.
- Ashraf A. Ali, Khalid Al-Begain “Multimedia Services Key Performance Indicators Definition via SIP and IMS Registration Performance and Challenges Analysis” International Journal of Interactive Communication Systems and Technologies (IJICST) 2018.
- Ashraf A. Ali, Fatimah Zahrani, Andrew Ware, Khalid Albegain “Performance Evaluation and Benchmarking of Mission Critical Medical Access Systems” IEEE Healthcom, Czech Republic, Ostrava 2018.
- Burak Unal, Ashraf A. Ali, Nicholas Avlonitis, Ifiok Otung, “**MOBILITY ENHANCEMENT FOR DIGITAL VIDEO BROADCAST NETWORKS VIA SATELLITE**”, Canada, Niagara Falls, 2018.
- Book Chapters:
 - “Introduction to Mission Critical Systems and Its Requirements” Ashraf A. Ali (The Hashemite University, Jordan & University of South Wales, UK) and Khalid Al-Begain (University of South Wales, UK & Kuwait College of Science and Technology, Kuwait) Source Title: Multimedia Services and Applications in Mission Critical Communication Systems, Copyright: © 2017 Pages: 18 DOI: 10.4018/978-1-5225-2113-6.ch001.
 - “IP Multimedia Subsystem and SIP Signaling Performance Metrics” Ashraf A. Ali (The Hashemite University, Jordan & University of South Wales, UK) and Khalid Al-Begain (University of South Wales, UK & Kuwait College of Science and Technology, Kuwait) Source Title: Multimedia Services and Applications in Mission Critical Communication Systems, Copyright: © 2017 | Pages: 17 DOI: 10.4018/978-1-5225-2113-6.ch002.
 - “Session Initiation and IP Multimedia Subsystem Performance Evaluation” Ashraf A. Ali (The Hashemite University, Jordan & University of South Wales, UK) and Khalid Al-Begain (University of South Wales, UK & Kuwait College of Science and Technology, Kuwait) Source Title: Multimedia Services and Applications in Mission Critical Communication Systems, Copyright: © 2017 | Pages: 14 DOI: 10.4018/978-1-5225-2113-6.ch003.
 - “Performance Metrics for SIP-Based VoIP Applications Over DMO” Mazin I. Alshamrani (Saudi Arabia) and Ashraf A. Ali (The Hashemite University, Jordan & University of South Wales, UK) Source Title: Multimedia Services and Applications in

Mission Critical Communication Systems, Copyright: © 2017 | Pages: 30 DOI: 10.4018/978-1-5225-2113-6.ch004.

- “QoS and Performance Evaluation for SIP-Based VoIP Over DMO” Mazin I. Alshamrani (Saudi Arabia) and Ashraf A. Ali (The Hashemite University, Jordan & University of South Wales, UK). Source Title: Multimedia Services and Applications in Mission Critical Communication Systems, Copyright: © 2017 | Pages: 35 ,DOI: 10.4018/978-1-5225-2113-6.ch005

Sample Project

- Load Balancing in Core IP Networks: mainly during the PhD project, MATLAB dedicated server was used to analyze statistically the real time traffic of more than 10000 user signaling traffic to tell in real time if the aggregated traffic in the core network is following certain distribution pattern that is deviated enough from the normal expected behaviors of the system. Feedback control channel is used to trigger a load balancing algorithm if the output of the analysis is positive.

Professional Membership

- ⇒ IET member
- ⇒ IEEE member
- ⇒ Higher Education Academy (HEA) Fellow Member FHEA

Awards and Scholarships

- ⇒ Hashemite University scholarship to complete my graduate studies at AIT in Greece. 2007
- ⇒ Queen Rania Scholarship for Postgraduate studies.
- ⇒ Onassis foundation internship for a lecture series in Embedded Systems in Iraklion-Greece. 2008
- ⇒ Research Grant from Intracom telecom (leading communication company in Europe). 2009

- ⇒ Hashemite University Scholarship for a research program with the University of South Wales.

Internships and Industry Projects

- ⇒ Research Assistant, Intracom Telecom and Athens Information Technology, Athens-Greece. A researcher in the Research and Development of Intracom Telecom Company and Athens Information Technology Institute, the project discussed the mobile broadband applications traffic demands. In Intracom telecom I had the chance to do my master thesis with industry. The thesis title is “bandwidth requirements of VoIP codecs over WiMAX access technologies”

during that I worked as a research assistance in a team environment in the R&D department.

- ⇒ Active research member in MOCONET research group at the Center of Excellence for Mobile Applications and Services (CEMAS) funded by the European Regional Development Fund (ERDF) Our research on next generation networks and IMS, as well as disaster scenarios, is contributing to the creation of the world's first Mission Critical applications over LTE and LTE-Advanced networks. General Dynamics UK has commissioned collaborative research (EDGE Project) with the MoCoNet research team to develop and optimise the world's first Mission Critical Voice over LTE (MC VoLTE) based on Push-to-Talk technology with extremely stringent quality constraints. The system is partly based on components developed by the team such as GenXfone IMS client, Media Gateway (M-Gw) and the SIP-based Push-to-talk Server.
- ⇒ <http://mobile.research.southwales.ac.uk/mission-critical-voice/>