

Personal Info

PROF. SALMAN ALI ALQAHTANI, PhD

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EDUCATION

Ph.D. in Computer Science & Engineering Feb., 2007

King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia

- Dissertation: “**Radio Resource Management and Operator Sharing in 3G and Beyond Multimedia Wireless Networks**”
- Areas of Concentration: Simulation and Modeling, 3G & Beyond Mobile Wireless ,Computer Architecture and Computer Networks
- Minor: Mobile Wireless Networks
- Honors: G.P.A. is 4.0/4.0 and Dissertation Approved “with Distinction”

M.S. in Computer Engineering March, 2003

King Saud University, Riyadh, Saudi Arabia

- Thesis: “**Prioritized Handover and Call Admission Control Schemes for Multimedia Traffic in Cellular Mobile Wireless Networks**”
- Areas of Concentration: Simulation and Modeling, Computer Architecture and Computer Networks
- Minor: Mobile Wireless and Data Networks
- Honors: Highest Honors

High Diploma in Security Sciences March, 1998

King Fahd Security College, Ministry of Interior, Riyadh, Saudi Arabia

B.S. Honors in Computer Engineering Jan., 1997

King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia

- Areas of Concentration: Computer networks, Digital Design, Computer Science and Computer Architecture and networks
 - Minor: Computer architecture and networks
 - Honors: Highest Honors
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FIELD OF SPECIALIZATION / INTEREST:

Include, but not limited to:

- Recent Advances in Technologies: Industry 4.0., Advanced Mobile Wireless Technologies (4G & 5G), Internet of everything and its services, Heterogeneous Wireless Networks, TETRA and Cognitive Radio networks.
- Smart Sustainable Nation and Cities, Network Integrated Services, Network Infrastructures and Data Center solutions
- Business Process Automation (BPA) and Digital transformation Solutions
- Security and Video Surveillance
- Digital Forensics and Investigations

PROFESSIONAL EXPERIENCE

King Saud University, Computer Engineering Dept., Riyadh, Saudi Arabia

- Full Professor Computer Engineering and Communication Networks (Oct. 2016)
- Chairman of Computer Engineering Dept. Dec 2013 –Feb. 2016
- Associate professor of Computer Networks Sept. 2012 – Oct. 2016
- Assistant professor of Computer Networks Sept. 2011 – Sept. 2012

King Fahd Security College, Ministry of Interior, Riyadh, Saudi Arabia

- Worked as an officer Engineer for more than 14 years 1998-2011
- Assistant professor of Computer and communication Networks 2007 - 2011
- Part time Assistant Professor – “ICT Department.” 2011-2012
- Lecturer – “Computer information and security” 1998-2003
- Chairman of Computer Science Department 2007 – 2011
- Founder and Academic Advisor of Digital Forensic Investigations Diploma 2010 - 2012
- Chairman of Computer Networks Section 2007 - 2008
 - Administrated the college’s networks, network maintenance and supports.
- Network administrator 2000 -2003
 - Administrated the college’s networks, network maintenance and supports.
- Director, Deputy Manger office 1998 - 2000
 - Worked as director of the deputy manager office.

General Department of Saudi Prisons

- IT Consultant 2009 - 2012

Comprehensive vision center for ICT consulting (cvc4it), Riyadh

- Information & Communication Technology Consultant 2008 - 2010
 - Working as consultant for: IT strategy plan development, Building IT infrastructure, new communication technology solution, etc.

Saudi Unicom for Communication Technologies, Riyadh

- Information & Communication Technology Consultant 2008 - 2009
 - Working as consultant for: GPS Tracking system and video surveillance, live video streaming, developing communication solutions for security purposes, etc.
- General Manager of Saudi Unicom Company 2009 - 2010

Saudi ARAMCO, Dhahran, Saudi Arabia

- Network Engineer 1997 - 1998
 - Worked on the control room of oil factory in Jubail.
- Computer engineer Summer 1996
 - Provided network and system design to the field engineers.

France

- Student 1991- 1992
 - Studied French language.

TEACHING AND ACADIMIC EXPERIENCE

King Saud University, Computer Engineering Dept., Riyadh, Saudi Arabia

- Taught courses (PhD level):
 - Personal Communication Systems (CEN 634)
 - Advanced Computer Networks (CEN 631)
 - Independent Research Study 2 (CEN 697)
- Taught courses (Master level):
 - Queuing Theories & Simulation (CEN501)
 - Wireless LAN & WAN (CEN538)
 - Computer Networks (CEN531)
 - LAN Protocols and Performance (CEN537)
- Taught courses (BS level):
 - Mobile & Wireless Networks (CEN491)
 - Senior Project (CEN492)
- Part time lecturer – Computer networks and network operating systems 1998-2003
 - Taught "computer networks (LAN) and network operating system lab".

King Fahd Security College, Riyadh, Saudi Arabia

- Taught courses:
 - Network and Information Security Courses.: 1998-2011
 - Digital Forensic Course 2010- 2012
 - Introduction to Communications 2007- 2011

Arab Open University, Riyadh, Saudi Arabia

- Part time Assistant Professor– "IT Department " 2007-2011
- Taught courses:
 - "Information and Communication Technologies Course" (T209): 2007-2009
 - "Digital Communication Technologies Course" (T305) : 2009-2010
 - "Keeping ahead in ICT Course" (T324) 2009-2011

Prince Naif University for Security Sciences, Riyadh, Saudi Arabia

- Part time Assistant Professor – "Police Studies" 2010-2011
- Teaching "Digital Forensic Evidence Course"

Prince Sultan University, Riyadh, Saudi Arabia

- Part time Assistant Professor – "Computer Science Department " 2007-2008
- Taught "Digital Design Course" (CS 151)

MAJOR NETWORK AND INTEGRATED SOLUTIONS PROJECTS ACCOMPLISHMENTS

Command Control Center Projects:

- Participated in designing, management and operation of the Command control systems for Saudi Red Crescent (2009).
- Studied and designed the technical requirements for building a command control center for (990) services.

CCTV Projects:

- Managed the design and Implementation of IP surveillance and remote monitoring applications projects in King Fahd Security College; Wrote, evaluated and supervised the whole projects deployment (2007).
- Participated in designing, studying and analyzing the CCTV project for the whole Saudi Prisons Sector over all the Kingdom (2009)

Digital Forensics:

- Proposed, Designed, wrote and analyzed the requirements and technical specifications for Digital Forensic Labs projects at King Fahd Security College (2011).
- Designed a new High Diploma in Digital forensic Investigations at King Fahd Security College and wrote its academic requirements (software, courses...) (2010).
- Designed, wrote and evaluated many IT security projects at Prisons sectors.

Network & Communication Projects:

- Studied and provided the technical requirements for building TETRA network for Saudi Red Crescent and updating their current communication networks (2009).
- Designed and wrote the technical requirements for E-Training Lab for TETRA simulation, King Fahd Security College.
- Managed and Assisted in designing, planning, and implementing the whole LAN & WLAN networks projects currently in use at King Fahd Security College. Prepared and evaluated the network requirements (2003).
- Lead the technical effort in implementing the infrastructure and maintaining of the whole networks currently in use at King Fahd Security College (2001).

Integrated Solutions Projects

- Participated, as technical team member, in evaluating the technical solutions proposed by many companies to build a complete IT Solution (IT infrastructure and software applications) for Saudi Arabian Financial Intelligent Unit SAFIU. (2011)
- Analyzed, studied and designed the technical requirements for building a smart college environment at King Fahd Security College (2007).

Training Labs Projects:

- Participated, as leader of technical team member in designing, evaluating and deploying the GIS smart LAB for King Fahd Security College. (2010)
- Designer and technical manager of Digital forensics Lab deployment project at King Fahd Security College (2011).

Software Application Projects:

Analyzed and developed many software applications currently in use at KFSC including:

- KFSC admission application program,
- KFSC budget application program and;
- KFSC planning application program.
- Developed an Application program for car rental services for commercial usage.

TECHNICAL AND SOFTWARE SKILLS

- TETRA wireless networks concepts.
- Wireless Networks: all wireless technology; HAPS, WIMAX, WiFi, 3G, 4G and beyond.
- Technical Certifications: Microsoft Certified Systems Engineer (MCSE), Extreme Networks Switches configuration, PC repairing and maintenance.
- Network Administration Skills: Design, implementation, and maintenance of Microsoft Windows NT/2000 network systems for the specific needs of the enterprise environment. Maintaining and establishing user accounts, network security, troubleshooting printer problems, back-up devices, and installing and maintaining servers.
- Digital Forensics concepts, processing, evaluating and Tools
- Digital Universe: Revolution, side-effects (CyberCrimes)
- Networking Skills: Intel Routers, Extreme Networks Switches, Very High TCP / IP proficiency

- OS Knowledge Base Skills: All windows variants
- Databases: SQL, Microsoft Access
- Programming language: C+, C++, Visual basic, Access, Pascal , FORTRAN and MATLAB
- Hardware Skills: All PC variants
- Software Skills: Microsoft BackOffice Servers, Exchange Servers, Office variants, Visio

TRAINING CERTIFICATES

I accomplished many courses in the field of IT including:

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|-------------------------------------|--------------|
| • IP Switches Managements , | Dubai 2002 |
| • Network Managements, | Riyadh 2002 |
| • SQL Database Management, | Riyadh 2003 |
| • Information Security, | Austria 2009 |
| • Digital Forensics, | Canada2010 |
| • Mobile Forensics, | Canada2010 |
| • PMP, | Riyadh 2010 |
| • Academic development and teaching | Riyadh 2010 |
| • LTE Networks | London 2013 |

PUBLICATIONS AND TALKS

THESIS:

1. **Ph.D Dissertation:** "Radio Resource Management and Operator Sharing in 3G and Beyond Multimedia Wireless Networks", Feb. 2007.
2. **M.S. Thesis:** "Prioritized Handover and Call Admission Control Schemes for Multimedia Traffic in Cellular Mobile Wireless Networks", March 2003

BOOKS: (2 BOOKS)

1. **Salman A. AlQahtani**, "Digital Forensics Evidence: Concepts and Processing Techniques (In Arabic)", KFSC Research and studies center, Riyadh, 2011.
2. **Salman A. AlQahtani**, "Introduction to Wireless Communication Networks (In Arabic)", KSU, Riyadh, 2013.
3. **Salman A. AlQahtani**, "Towards Smart Sustainable Country: Visions, Principles, Requirements and Challenges (In Arabic)", KSU, under press, Riyadh, 2017.

JOURNAL PUBLICATIONS

1. **Salman A. AlQahtani**, "Modeling and Performance Analysis of Unlicensed Bands MAC Strategy in Multi-channel LTE-A Networks with M2M/H2H Coexistence," Wireless Networks, Accepted, 2017. **[ISI]**
2. **Salman A. AlQahtani**, "Performance Analysis of Cognitive-Based Radio Access Strategy in Multi-channel LTE-A Networks with M2M/H2H Coexistence," IET Communications, Accepted, 2017. **[ISI]**
3. **Salman A. AlQahtani**, "Analysis and modelling of power consumption-aware priority-based scheduling for M2M data aggregation over long-term-evolution networks," IET Communications, Volume 11, Issue 2, p. 177 – 184, 26 January 2017. **[ISI]**
4. Aghus Sofwan and **Salman A. AlQahtani**, "Cooperative and Fair MAC Protocols for Cognitive Radio Ad-hoc Networks", Wireless Network, doi:10.1007/s11276-016-1296-x, 2016. **[ISI]**.

5. **Salman A. AlQahtani**, "Delay Aware and Users Categorizing-Based Call Admission Control for Multi-Services LTE-A Networks," *Arabian Journal for Science and Engineering (AJSE)*, September 2016, Volume 41, Issue 9, pp 3631–3644. [ISI]
6. Hasan Ahmad and **Salman A. AlQahtani**, "Performance Evaluation of Joint Admission and Eviction Controls of Secondary Users in Cognitive Radio Networks," *Arabian Journal for Science and Engineering (AJSE)*, Vol. 40, Issue 12, P. 3469-3481, 2015. [ISI].
7. **Salman A. AlQahtani**, "Token Bucket Fair Scheduling Algorithm with Adaptive Rate Allocations for Heterogeneous Wireless Networks," *Wireless Personal Communications*, Vol. 84, Issue 2, P. 801-819, 2015. [ISI].
8. **Salman A. AlQahtani**, "Performance Analysis of Preemption-Based Call Admission Scheme for Macrocell Users in Multi-Operators LTE Pico-Macro Cellular Networks," *Arabian Journal for Science and Engineering (AJSE)*, Vol. 40, Issue 9, P. 2487-2501, 2015. [ISI].
9. Aghus Sofwan, Mourad Barkat, and **Salman A. AlQahtani**, "PN Code Acquisition Using Smart Antennas and Adaptive Thresholding for Spread Spectrum Communications," *Wireless Networks*, Vol. 22, Issue 1, P. 223-234, 2015. [ISI].
10. **Salman A. AlQahtani**, "Analysis of Resource Splitting Scheme with Cognitive Based Admission Control for Femto-WiFi Wireless Networks," *Wireless Networks*, November 2014, Volume 20, Issue 8, pp 2307-2317. [ISI].
11. **Salman A. AlQahtani**, "Analysis of an Adaptive Priority-Based Resource Allocation Control for LTE-Advanced Communications with Type I Relay Nodes," *Wireless Personal Communications*, SPRINGERS, August 2014, Volume 77, Issue 4, pp 2699-2722. [ISI].
12. **Salman A. AlQahtani** and Mohamed Alhassany, "Performance Modeling and Evaluation of Novel Scheduling Algorithm for LTE Networks," *Cyber Journals: Multidisciplinary Journals in Science and Technology, Journal of Selected Areas in Telecommunications (JSAT)*, Vol. 4, No. 1, pages 15-122, 2014.
13. **Salman A. AlQahtani**, "Performance Analysis of a New Packet Reservation Multiple Access with Adaptive Permission Probability," *Arabian Journal for Science and Engineering (AJSE)*, Vol. 39, No. 5, PP. 4023–4035, 2014. [ISI]
14. Mahmoud M. Badawy and **Salman A. AlQahtani**, "Adaptive Terminal-Modality-Based Joint Call Admission Control for Heterogeneous Cellular Networks," *International Journal of Communications, Network and System Sciences (IJCNS)*, Vol. 6, No. 9, Sept. 2013.
15. **Salman A. AlQahtani**, "Radio Resource Management Scheme for Multi-agency TEDS Networks," *Arabian Journal for Science and Engineering (AJSE)*, Vol. 38, No. 9, 2013. [ISI]
16. **Salman Ali AlQahtani** "Performance Modeling and Analysis of Distributed-Based Polling Networks ", *International Journal of Computer Science Issues (IJCSI)*, Volume 8, Issue 5, 30th September 2011. [IF=0.24]
17. **Salman Ali AlQahtani**, Ahed Alshanyour, Ashraf Mahmoud," Performance of Random Contention PRMA: A Protocol for Fixed Wireless Access ", *International Journal of Communications, Network and System Sciences (IJCNS)*. Vol. 4, No. 7, pp. 417-423, July 2011.
18. **Salman Ali AlQahtani**, "A Comparison and Performance of Different Optical Switching Architectures ", *International Journal of Communications, Network and System Sciences (IJCNS)*, Vol. 4, No. 8, PP. 514-522, August 2011.
19. **Salman A. AlQahtani**, "Adaptive Rate Scheduling for 3G networks with Shared Resources using the Generalized Process Sharing Performance Model," *Elsevier's Computer Communications Journal*, Volume 31, Issue 1, 15 January 2008, Pages 103-111. [ISI]
20. **Salman A. AlQahtani**, "Performance Analysis of two Throughput-Based Call Admission Control Schemes for 3G WCDMA Wireless Networks Supporting Multi-services," *Elsevier's Computer Communications Journal*, Volume 31, Issue 1, 15 January 2008, Pages 49-57. [ISI]
21. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "A Framework of Call Admission Control Procedures for Integrated Services Mobile Wireless Networks," *Arabian Journal for Science and Engineering (AJSE)*, Vol. 32, No. 1B, pp. 115-139, April 2007. [ISI]
22. **Salman A. AlQahtani**, Ashraf S. Mahmoud and Asrar U. Sheikh, "Adaptive Radio Resource with Borrowing for Multi-Operators 3G+ Wireless Networks with Heterogeneous Traffic," *Elsevier's Computer Communications Journal*, vol. 29, Issue 15, pp. 2945-2951, 5 Sept. 2006. [ISI]

23. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Dynamic Radio Resource Allocation for 3G and beyond Mobile Wireless Networks," Elsevier's Computer Communications Journal, vol. 30, Issue 1, pp. 41-51, 2006. [ISI]
24. **Salman A. AlQahtani** and Nasser E. Rikli, "Performance Evaluation of Implementing Calls Prioritization with Different Queuing Disciplines in Mobile Wireless Networks," Journal of Computer Science, Vol. 2 (5): pp. 466-472, 2006.
25. **Salman A. AlQahtani**, "A Simulation-Based Comparison of Multimedia Traffic Prioritization Schemes for High-Performance Input-Queued Packet Switches," Journal of Computer Science, Vol. 2 (4): 2006.
26. **Salman A. AlQahtani** and Khalid Salah, "Performance Evaluation of Various Techniques for Handling Interrupts in Gigabit Networking Environment," Journal of Applied Sciences 6 (6): 1396-1403, 2006.
27. **Salman A. AlQahtani**, "A Dynamic Prioritization Scheme for High-Performance for Input-Queued Packet Switches Network," International Journal of Computer Science and Network Security, pp. 58-65, Jan. 2006.
28. **Salman A. AlQahtani**, Ashraf S. Mahmoud and Uthman Baroudi, "Prioritized Radio Resource Allocations for Multi-operators 3G/4G WCDMA with Heterogeneous Traffic," International Journal of Computer Science and Network Security, pp. 50-56, Dec. 2005.
29. **Salman A. AlQahtani**, Tarek Helmy, and Khalid Salah, "Performance Evaluation of a QoS-Aware Mechanism for Polling-Based High-Speed Network Interfaces," Journal of Computer Science, Vol. 1 (4): pp. 460-469, 2005.

CONFERENCES PUBLICATIONS

1. **Salman A. AlQahtani**, "Cognitive-Based Resource Allocation Scheme in LTE-A Networks with M2M/H2H Coexistence" IEEE 16th Wireless Telecommunications Symposium (WTS 2017); 03/2017, Chicago, USA.
2. Ahmed M. AlOtaibi and **Salman A. AlQahtani**, "Routing Protocol for Cognitive Radio Ad Hoc Networks" IEEE 16th Wireless Telecommunications Symposium (WTS 2017); 03/2017, Chicago, USA.
3. Aghus Sofwan and **Salman A. AlQahtani**, "Cooperative Fair Multichannel MAC Protocol for Cognitive Radio Ad Hoc Network" The 2nd International Conference on Information Technology, Computer, And Electrical Engineering (ICITACEE 2015), Oct. 2015, Diponegoro University, Semarang, Indonesia.
4. Aghus Sofwan and **Salman A. AlQahtani**, "Cooperative Multichannel MAC Protocol for Cognitive Radio Ad Hoc" IEEE Global Communications Conference (GLOBECOM) 2015; 012/2015, San Diego, USA.
5. Aghus Sofwan and **Salman A. AlQahtani**, "MC-MAC: An Efficient Multichannel MAC Protocol for Cognitive Radio Ad Hoc Networks" IEEE 82nd Vehicular Technology Conference: (VTC) 2015 Fall; 09/2015, Boston, USA.
6. **Salman A. AlQahtani**, and Nasser M. Ahmed, "Call Admission Control for Two-Tier LTE Macro/Pico Cellular Networks," Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering and Computer Science 2015, 21-23 October, 2015, San Francisco, USA, pp733-737
7. Mahmoud M. Badawy and **Salman A. AlQahtani**, "Adaptive Joint Call Admission Control for Heterogeneous Mobile Networks," Proceedings of the World Congress on Engineering and Computer Science 2014 Vol II, WCECS 2014, 22-24 October, 2014, San Francisco, USA.
8. **Salman A. AlQahtani**, "Study of an Admission Control with Adaptive Probability in Relay Enhanced LTE-Advanced Networks," 11th IEEE International Conference on Networking, Sensing and Control, Miami, FL, USA, April 2014.
9. **Salman A. AlQahtani** and Hassan Ahmad, "An Admission Control Scheme for Secondary Users in Cognitive Radio Networks," 11th IEEE International Conference on Networking, Sensing and Control, Miami, FL, USA, April 2014.
10. **Salman A. AlQahtani** and Mohammed A. Alhassany, "Performance Modeling and Evaluation of a Novel Scheduling Algorithm for LTE Networks," The 12th IEEE International Symposium on Network Computing and Applications (IEEE NCA 2013), Cambridge –MA, USA, August, 2013.
11. **Salman A. AlQahtani** and Mohammed A. Alhassany, "Comparing Different LTE Scheduling Schemes," The 9th International Wireless Communications and Mobile Computing Conference (IEEE IWCMC 2013)), Sandinia - Italy, July, 2013.

12. **Salman A. AlQahtani** and Mohammed AlOraini "Resolving Wireless Security Limitations Using a New Wi-Fi Secure Access", The 12th IEEE International Conference on Computer and Information Technology (CIT2012) , Chengdu, China, Oct. 27 - Oct. 29, 2012.
13. **Salman A. AlQahtani**, "Adaptive Packet Reservation Multiple Access Protocol for Fixed Wireless Communications", The IEEE 8th International Wireless Communications and Mobile Computing Conference (IWCMC 2012), Limassol, Cyprus, August 27-31, 2012.
14. **Salman A. AlQahtani**, "Radio Resource Sharing in Multi-agency TEDS Networks" *The 17th IEEE Symposium on Computers and Communications (ISCC'12)*, July 1 - 4, 2012, Cappadocia, Turkey.
15. **Salman A. AlQahtani**, "Adaptive Resource Allocation Scheme for TETRA Networks with Multi-operators," The Second International Conference on Access Networks (ACCESS 2011), Luxembourg, June 19-24, 2011.
16. Ahmed S. Atteih, **Salman A. AlQahtani**, Ayman Nazmy, "Emergency Management Information System: Case Study", The 5th National GIS Symposium in Saudi Arabia, Al-Khobar City, April 26 – 28, 2010.
17. **Salman A. AlQahtani**, "Packet Scheduling Schemes for Mobile Service Providers with Heterogeneous Traffic," The 2008 International Conference on High Performance Computing, Networking and Communication Systems (HPCNCS-08), Orlando, FL, USA, July 7-10 2008.
18. **Salman A. AlQahtani**, "Resource Allocation Schemes for 3G Mobile Service Providers with Heterogeneous Traffic," 5th IEEE International Conference on Networks ICON2007, Adelaide, South Australia ,19-21 November 2007.
19. **Salman A. AlQahtani**, "A Novel Hybrid Scheme of Interrupt Enabling -Disabling and Polling (EDP) for High-Speed Computer Networks," the 7th International Symposium on Communications and Information Technologies (ISCIT 2007), Sydney, Australia, October 16 - 19, 2007.
20. **Salman A. AlQahtani**, "Performance Evaluation of Handling Interrupts Schemes in Gigabit Networks," IEEE 7th International Conference on Computer and Information Technology (CIT), University of Aizu, Fukushima Japan, October 16 - 19, 2007.
21. **Salman A. AlQahtani**, Ashraf S. Mahmoud and Asrar U. Sheikh, "Performance Analysis of an Adaptive Rate Scheduling for 3G WCDMA Networks with Multi-Operators," The IEEE International Conference on Communications (ICC 2007) ,24-28 June, Glasgow, UK ,2007.
22. **Salman A. AlQahtani** and Ashraf S. Mahmoud , " 3G WCDMA network sharing: Infrastructural sharing solutions, economical rational and network managements Issues," 2nd International Conference on Modeling Simulation and Applied Optimization, Abu Dhabi, U.E.A, March 2007.
23. **Salman A. AlQahtani**, Ashraf S. Mahmoud and Asrar U. Sheikh, " Simulation Based Study of Adaptive Rate Scheduling for Multi-Operator 3G Mobile Wireless Networks," IEEE 65th Vehicular Technology Conference, 23-25 April, Dublin, Ireland, 2007.
24. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Performance Evaluation and Analytical Modeling of a Novel Dynamic Call Admission Control Scheme for 3G WCDMA," ACS/IEEE International Conference on Computer Systems and Applications, AICCSA '2007, Amman, Jordan, May 13-16, 2007.
25. Alshanyour, Ashraf Mahmoud, Tarek Sheltami, and **Salman A. AlQahtani** , "Packet Reservation Multiple Access (PRMA) with Random Contention," ACS/IEEE International Conference on Computer Systems and Applications, AICCSA '2007, Amman, Jordan, May 13-16, 2007.
26. **Salman A. AlQahtani** , Ashraf S. Mahmoud and Asrar U. Sheikh "Performance Evaluation of Uplink CAC for 3G WCDMA Networks with Multiservices", 10th IEEE Conference on Communications Systems (ICCS06) ,30th Oct.-1 Nov, Singapore ,2006.
27. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Radio Resource Management with Dynamic Behaviour for 3G and Beyond Wireless Networks with Heterogeneous Traffic," 14th IEEE International Conference on Networks (ICON2006), Sept 13-15, Singapore, 2006.
28. **Salman A. AlQahtani** and Uthman Baroudi, "An Uplink Admission Control for 3G and Beyond Roaming Based Multi-Operator Cellular Wireless Networks with Multi-Services," 4th ACS/IEEE International Conference on Computer Systems and Applications , Dubai/Sharjah, UAE , pp. 725-729 , March 8-11, 2006.
29. **Salman A. AlQahtani** and Uthman Baroudi, "An Uplink Performance Evaluation for Roaming-Based Multi-Operator WCDMA Cellular Networks," 4th ACS/IEEE International Conference on Computer Systems and Applications, Dubai/Sharjah, UAE, pp. 376-380, March 8-11, 2006.

30. **Salman A. AlQahtani**, Ashraf S. Mahmoud Tarek R. Sheltami, and Mohamed El-Tarhuni, "Adaptive Radio Resource Management for Multi-Operator WCDMA Based Cellular Wireless Networks with Heterogeneous Traffic," 17th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'06), Sept 9-13, Helsinki, Finland, 2006.
31. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Analytical Modeling of Two Call Admission Control Schemes for Multiclass Traffic 3G Mobile Wireless Networks, " 15th IST Mobile & Wireless Communications Summit 2006 ,Myconos, Greece, 4-8 June, 2006.
32. **Salman A. AlQahtani** , Ashraf S. Mahmoud , Uthman Baroudi and Asrar U. Sheikh , " A Study on Network Sharing and Radio Resource Management in 3G and Beyond Mobiles Wireless Networks Supporting Heterogeneous Traffic," 2nd IEEE International Conference On Information & Communication Technologies: From Theory To Applications, Damascus, Syria., April 24 - 28, 2006.
33. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Uplink Call Admission Schemes for 3G and Beyond Mobiles Wireless Networks Supporting Heterogeneous," 2nd IEEE International Conference on Information & Communication Technologies: From Theory to Applications, Damascus, Syria, April 24 - 28, 2006.
34. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Radio Resource Management Issues for 3G and Beyond Cellular Wireless Networks," 3rd IEEE Gulf International Conference (IEEE-GCC 2006), Manama, Bahrain, March 19-22, 2006.
35. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Analytical Modeling of Call Admission Control Schemes for Multiclass Traffic Mobile Wireless Networks," 3rd IEEE Gulf International Conference (IEEE-GCC 2006), Manama, Bahrain, March 19-22, 2006.
36. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "A QoS-Aware Call Admission Control Algorithm for 3G Cellular Wireless Networks," 3rd IEEE Gulf International Conference (IEEE-GCC 2006), Manama, Bahrain, March 19-22, 2006.
37. **Salman A. AlQahtani** and Ashraf S. Mahmoud, "Uplink Admission Control in WCDMA," International symposium on wireless communications (ISWSN'05), pp. 18- 23, KFUPM, Sept. 2005.
38. **Salman A. AlQahtani** and Ashraf S. Mahmoud , " A Prioritized Uplink Call Admission Control Algorithm for 3G WCDMA Cellular Systems with Multi-Services," Proceedings of 6th IEE International Conference on 3G & Beyond (3G 2005), London, UK, pp. 173-178, 5-7 Nov. 2005.
39. **Salman A. AlQahtani**, "Information Security according to the new Technological and informational Development in Mobile Wireless Networks," Proceeding of the First International Conference on security issues for e-operations, Dubai, U.A.E. 26-28 April 2003.

THESIS SUPERVISION

Masters:

No	Student Name	Thesis Title	Graduation Date
1	Sami alzaydi	Uplink Call Admission Control With Adaptive Resource Reservation for Multi-Services LTE Networks	January 2014
2	Mohammed alhassany	An Efficient Packet Scheduling Scheme for 3GPP LTE Uplink in Mixed Traffic Environments	June 2013
3	Hassan Ahmed	An Efficient Algorithm for Admission and Eviction Control of Secondary Users at Cognitive Radio Network	October 2014
4	Mohammed AlOriany	An Efficient MAC Protocol for System Utilization Enhancement in Cognitive Radio Networks	June 2016
5	Mahmoud Badawy	An Efficient Multiservice Mobile Terminals Modality-Based Joint Call Admission Control for Heterogonous Cellular Network	March 2017
6	Mohmd Alharthi	Delay Aware Resource Allocation Scheme for Machine to Machine Communications over LTE Networks	In progress

PhD:

No	Student Name	Thesis Title	Graduation Date
1	Aghus Sofwan	An Efficient Fair Medium Access Control (MAC) Protocol for Cognitive Radio Ad Hoc Network	May 2016
2	Ahmed Alotaibi	Stability-Based with Multi-Quality of Service Metrics Routing Protocol for Cognitive Radio Ad Hoc Network	In progress

TECHNICAL PRESENTATIONS AND TALKS

- Presented all 1st author papers in their corresponding conferences and workshops.
- Was invited to give several technical presentations and workshops.
- Gave number tutorial in Wimax, HAPS and latest wireless technologies.
- Gave number tutorial on "Digital Forensics Concept".

PROFESSIONAL ACTIVITIES

King Saud University, Riyadh, Saudi Arabia

- Member of Scholarship Committee at College of Computer Sciences & Information
- Member of Master Degree Curriculum committee at Computer Engineering Dept.

King Fahd Security College (KFSC), Ministry of Interior (MOI), Riyadh, Saudi Arabia

- Committee Secretary – "Ministerial development plan committee for KFSC" 1998-2000
- IT and data processing committee Leader – "KFSC admission committee" 1998-2010
- Director of admission program and led the admission's data processing and monitoring committee
- Member of Curriculum committee 2007-2011
- Member of the ethical Technology content legalization Committee, MOI 2011

HONORS & AWARDS

- Best PhD student Award for academic achievements, KFUPM 2003-2007
- Highest Honors list, KFUPM 1992 – 1997
- Several certificates of appreciation from King Fahd Security College (KFSC) for distinct efforts and active contribution in the work's filed 1998-2007
- Certificates of appreciation from Assistant of Minister of Interior, His Highness Prince Mohamed bin Naïf, for distinct efforts and academic achievement. 2007
- Certificates of appreciation from college of computer and information sciences for distinct efforts and academic achievement. 2016

A REFEREE FOR THE FOLLOWING CONFERENCES AND JOURNALS:

- Elsevier Journal of performance evaluation, Elsevier Journal of computer communications, King Saud Journal, etc.
 - Number of IEEE Conferences including IEEE Wireless Communications and Networking Conference, IEEE International Conference on Signal Processing and Communications, IEEE International Conference on Network Protocols, etc..
-

LANGUAGES AND PERSONAL INFORMATION'S

- Arabic – native language
 - English – speak fluently and read/write with high proficiency
 - France – beginning.
 - Hobbies include squash, volleyball and swimming.
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- References are available on request.