

CURRICULUM VITAE

MOHAMMED MOHSEN AL-KHAWLANI

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PERSONAL INFORMATION

- Full name: Mohammed Mohsen Ahmed AL-Khawlani (Shadadi)
- Nationality: Yemeni
- Date of birth: Nov. 3 , 1977
- Place of Birth: Sana'a – Yemen
- Sex: Male
- Marital status: Married (have three children)
- Current Position: Associate Professor of Data Communication and Networking

CONTACT INFORMATION

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QUALIFICATIONS

- Data Communication and Networking Engineering **PhD** from De Montfort University, Leicester, UK, July 2008. Ph.D thesis title : "Access Network Selection for Heterogeneous Networks"
- Data Communication Systems **MSc** with Distinction from Department of Electronics and Computer Engineering, Brunel University, London, UK, Dec. 2003. , MSc. Thesis title: "Web Services: A Bridge between CORBA and DCOM"
- Computer Engineering **BSc** from Department of Computer Engineering, Faculty of Engineering, Cairo University, Egypt, July 2001. (Very Good with Honor Degree).

RESEARCHES & PUBLICATIONS

Journals

- Mohammed M. Alkhawlan, Multi Criteria based Joint Admission Control for Heterogeneous Wireless Networks, Journal of Science and Technology, Vol. 17, No. 2, pp. 69-86, Dec. 2012
- Mohammed M. Alkhawlan, Abdulqader M. Mohsen, Hybrid Approach for Radio Network Selection in Heterogeneous Wireless Networks, International Journal of Advanced Science & Technology, Vol. 44, pp. 33-47, July 2012
- Mohammed M. Alkhawlan, Fadhl M. Al-Akwaa, Abdulqader M. Mohsen, Intelligent Joint Admission Control for Next Generation Wireless Networks, International Journal of Advanced Computer Sciences and Applications, Vol. 3, No. 4, pp. 50-55, April 2012
- Fadhl M. Al-Akwaa, Mohammed M. Alkhawlan, Comparison of the Bayesian Network Structure Learning Algorithms, International Journal of Advanced Research in Computer Science and Software Engineering Vol. 2, No. 3, pp. 404-408, March 2012
- Mohammed M. Alkhawlan, Intelligent Vertical Handover for Heterogeneous Networks using FL and ELECTRE, Vol 3. No. 4., pp. 118-135, July 2011
- Mohammed M. Alkhawlan, Multi-Criteria Vertical Handover for Heterogeneous Networks, International Journal of Wireless & Mobile Networks (IJWMN) Vol. 3, No. 2, pp. 149-163, April 2011
- Mohammed M. Alkhawlan, Ammar Zahary, Intelligent Radio Network Selection for Next Generation Networks, Journal of Intelligent Computing, ADLINE Journal, USA and India, Vol. 1, No. 2, pp. 64-74, June 2010
- M. M. Alkhawlan, "Access Network Selection for co-existed WWAN, WMAN, and WLAN," Journal of Science and Technology, Vol. 14, No. 1, Jan. 2009
- M. M. Alkhawlan, "Access Network Selection in Heterogeneous, Wireless Networks," Journal of Science and Technology, Vol. 13, No. 2, Dec. 2008
- M. M. Alkhawlan and A. Ayes, Access network selection for coexisted WWAN, WMAN and WLAN using combined fuzzy logic and AHP, Int. J. Innovative Computing and Applications(IJICA), Vol. 1, No. 4, pp. 219-231, 2008
- M. M. Alkhawlan and A. Ayes, Access Network Selection based on Fuzzy Logic and Genetic Algorithms, Hindawi AAI Journal, Vol. 2008 (2008), Article ID 793058
- M. M. Alkhawlan, "Web Services: A Bridge between CORBA and DCOM," Journal of Science and Technology, Volume 9, No. 1, 2004

Conferences

- M.M. Alkhawlan, K.A. Alsalem, A.A. Hussein, Vertical Handover by TOPSIS and fuzzy logic, The International Conference on Communications and Information Technology (ICCIT-2011). pp. 96 – 102, Mar 2011.

- Mohammed M. Alkhawlan, "Radio Network Selection for Tight-Coupled Heterogeneous Networks", The 2009 International Arab Conference on Information Technology (ACIT'2009), pp.1-6, Dec.2009
- Mohammed M. Alkhawlan, " Intelligent Radio Network Selection for Next Generation Wireless Networks", The 2009 International Arab Conference on Information Technology (ACIT'2009), pp.20-25, Dec.2009
- M. M. Alkhawlan and K.A. Alsalem, Radio network selection for tight-coupled wireless networks, The 7th International Conference on Informatics and Systems (INFOS2010), pp. 1-8, March 2010
- M. M. Alkhawlan and Aref A. Hussein, Intelligent Radio Network Selection for Next Generation Networks, The 7th International Conference on Informatics and Systems (INFOS2010), pp. 1-7, March 2010
- M. M. Alkhawlan and A. Ayes, Access Network Selection using Combined Fuzzy Control and MCDM in Heterogeneous Networks, IEEE International Conference on Computer Engineering and Systems (ICCES 07), pp.108-113, Nov. 2007

WORK & EXPERINCE

1) TEACHING (SEP.2001- TILL NOW)

Teaching Subjects

- As a senior lecturer at the Faculty of Engineering, Electronics Engineering Dept., University of Science and Technology (UST), Sana'a-Yemen.
- MSc Lectrurer at The Arab Academy for Banking and Financial Sciences, Sana'a Branch
- Fundamentals of Data Commuication .
- Advanced Topics in Data Commincation Systems.
- Computer Networks.
- Wireless Networking.
- Mobile Commincation.
- Advanced Computer Arichtucture .
- Microprocessor Interfacing .
- Logic Digital Design .
- Programming Langugues.
- UML.
- Software Engineering
- Mobile Computing

2) PROFESSIONAL ACTIVITIES

- Senior Lectrurer
- Associate Prof.

- Head of the Examination Board in the Department of the Computer and Electronics Engineering (Oct. 2003 – Oct. 2005).
- Member of the Quality Assurance Management Board in the Computer and Electronic Engineering Dept., University of Science and Technology (Oct. 2003 – Oct. 2005).
- Member of the IT Department in the Faculty of Science & Engineering (Oct. 2003 – Oct. 2005).
- Member of the Programmes Development Committee, Computer and Electronic Department in the Faculty of Science & Engineering (Oct. 2008 – till now).
- Head of the Final-Year Projects Committee, Department in the Faculty of Science & Engineering (Oct. 2008 – till now).
- The Graduate Studies Director at the Faculty of Engineering, UST, Yemen (Feb. 2012 till now)
- The Executive Manager of the Computer Department in Abu Mohammed AL-Shadadi Trading Group, Sana'a, Yemen (August 2001-Sep 2002) & (Sep 2001 – till now).
- Vice President of Abu Mohammed AL-Shadadi Trading Group (Oct. 2008-till now).

3) SAMPLES OF MY UNDERGRADUATE STUDENTS' PROJECTS

- Coverage and Capacity Planning of GSM Network for Yemen, BSc, 2007.
- Coverage and Capacity Planning of UMTS Network for Yemen, BSc, 2007.
- Coverage and Capacity Planning of cdmaOne Network for Yemen, BSc, 2007.
- Coverage and Capacity Planning of WiMAX Network for Yemen, BSc, 2006.
- IPv4 to IPv6 Conversion, BSc, 2005
- Controlling the Home Devices Using GSM Mobile Device, BSc, 2005.

4) SKILLS

- Object Oriented Software Analysis and Design using UML.
- Programming using C++, VC++, J++, VB, and Pascal.
- Designing, Programming and Simulating using Matlab.
- Web Software Development using ASP, Java Scripts, and PHP.
- Database Software Development using VB with MS Access and MS SQL Server.
- Mobile and Wireless Network Simulation and Performance Study using ns-2, Opnet, and Matlab.

LANGUAGES

- Arabic: native speaker.
- English: Excellent reading, writing, speaking, and listening.

RESEARCH INTERSTS

- Data Communication Systems
- Wireless and Mobile Commuincation Systems.
- Mobile Ad Hoc and Sensor Networks.
- Computer Networks .
- Information Security.
- Fuzzy Logic
- Genetic Algorithms
- Decision Making Systems

ANOTHER INTERESTS

Reading , playing football , and travlling.

REFERENCES

- Prof. Hussein Zedan
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- Prof. Abdurraqib A. Asaad
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Univesity of Science and Technology.
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