

Curriculum Vitae



Omar Mohammad Deeb Al-Momani

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EDUCATION

2006 – 2010 **PhD's Degree in Information Technology (Computer Network)**
Thesis Title "Dynamic Redundancy Forward Error Correction Mechanism for the Enhancement of Internet-Based Video Streaming"
College of Arts and Sciences
Computer Science Department
University Utara Malaysia, Malaysia

Courses:

RESEARCH METHODOLOGY IN IT (STIQ5013)

INTERNET TECHNOLOGY (STIJ5013)

DISTRIBUTED SYSTEMS (STIJ5023)

2002 - 2003 **Master's Degree in Science (Telecommunication Technology)**
Institute of Information Technology
University of Sindh, Pakistan
Graduated (CGBA: 3.12/4.00)

Courses:

OPTICAL FIBRE COMMUNICATIONS (610)

OPTICAL FIBRE COMMUNICATIONS (LAB) (611)

SATELLITE COMMUNICATIONS (612)

SATELLITE COMMUNICATIONS (LAB) (613)

TELECOMMUNICATION NETWORKS (614)

TELECOMMUNICATION NETWORKS (LAB) (615)

INFORMATION CODING & THEORY (616)

TELECOMMUNICATION POLICY, STANDARDS & REGULATIONS (618)

MULTIMEDIA COMMUNICATION (620)

MOBILE CELLULAR COMMUNICATION (622)

MOBILE CELLULAR COMMUNICATION (LAB) (623)

ATM & B-ISDN (624)

RADAR SYSTEM ENGINEERING (626)

IP TELEPHONY (628)

1999 – 2002 **Bachelor's Degree in Science (Telecommunication Technology)**
Institute of Information Technology
University of Sindh, Pakistan
Graduated (CGBA: 2.85/4.00)

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✓ WORKING EXPERIENCE:

September 2014 –Up to date, Head of Network Computer and Information Systems Department.
The World Islamic Sciences & Education University (W.I.S.E)

September 2012 – September 2014, **Assistant Professor**, Department of Network Computer and Information Systems. The World Islamic Sciences & Education University (W.I.S.E)

February -2011 – September 2012 **Assistant Professor**, Department of Computer Network, Faculty of IT, Jadara University, Jordan.

Second semester 2011/2012: **Assistant Professor** (Part- time) at Department of Computer Science Jordan University of Science and Technology, Irbid.

First semester 2011/2012: **Assistant Professor** (Part- time) at Al-Huson College, Al-Balqa' Applied University, Jordan, Irbid.

2007 – 2008 Lecturer (Part- time)
College of Arts and Sciences
University Utara Malaysia, Malaysia

2006 - 2007 Teacher Assistant
College of Arts and Sciences
University Utara Malaysia, Malaysia

2004-2006 Lecturer,
Department of Computer Science
Bisha Teachers College, Saudi Arabia.

2003-2004 Lecturer (Part- time)
Al-Balqa' Applied University, Jordan
Al-Huson College, Irbid.

A guest lecturer of an Internet Technology (STIJ 5013) class. (Master Level)

A guest lecturer of an Distributed Systems (STIJ 5023) class. (Master Level)

✓ TEACHING EXPERIENCE:

Mobile Programming (Android)
Web Development Programming (JSP, JSF)
Web Design Programming (HTML, Java Script, CSS)
Programming Using Visual Basic.
Programming Using JAVA language.

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Programming Using C/C++ language.
Object Oriented Programming (C#)
Modelling and Simulation
Network Operating System
Computer Graphics.
Computer skills I & II.
Introductions to Computer and Information Technology.
Computer and Society.
Computer Network Skills.
Advanced Computer Network.
Internet Technology.
Distributed Systems.
Discrete Structure
Internet Skills

✓ **RESEARCH INTERESTS:**

Network Performance
Wireless and Mobile Networks
Multimedia Networks
Network Quality of Service (QoS)
IP Multicast
Network modeling and Simulation

✓ **PROFESSIONAL SKILLS:**

Computer Programming language: C++, Java and C# ,HTML,CSS,Java Script and Android.
Operating Systems: windows 2000/XP/Vista/2008 Server, Linux (Redhat and ubuntu)
Network Simulation Tools: NS2 , Packet Tracer and OPNET

✓ **PUBLICATIONS:**

✓ **JOURNAL:**

- 1) **Omar Almomani**, Mahmoud Al-shugran ,Jafar A. Alzubi and Omar A. Alzubi
"Performance Evaluation of Position-Based Routing Protocols Using Different Mobility Models in MANET" Submitted to " International Journal of Computer Applications June 2015 Edition.
- 2) Abiodun Sholiyi, Jafar A. Alzubi, Omar A. Alzubi, **Omar Almomani** and Tim O'Farrell
"Near Capacity Irregular Turbo Code " Submitted to Contemporary Engineering Sciences 2015.

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- 3) **Omar Almomani** , Radwan S. Abujassar and Tareq Alhmiedat "Enhance the Efficiency Routing between Mobile Nodes in MANET Networks" International Journal of Computer Applications (0975 – 8887) Volume 114 – No. 1, March 2015.
- 4) **Omar Almomani** and Mohammad Madi, "A GA-Based Replica Placement Mechanism for Data Grid" International Journal of Advanced Computer Science and Applications (IJACSA), 5(10), 2014.
- 5) **Omar Almomani** and Jafar Ababneh "UDP Traffic Behaviors Over eXplicit Multicast "International Journal of Current Engineering and Technology. (IJCET)Vol.4, No.6 (Dec 2014).
- 6) Jafar Ababneh, **Omar Almomani**, Wael Hadi, Nidhal Kamel Taha El-Omari, Ali Al-Ibrahim." Vector Space Models to Classify Arabic Text". International Journal of Computer Trends and Technology (IJCTT) 7(4):219-223, January 2014.
- 7) Jafar Ababneh and **Omar Almomani**." Survey of Error Correction Mechanisms for Video Streaming over the Internet ". (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 5, No. 3, 2014
- 8) Radwan Abujassar, **Omar Almomani**, Albara Awajan, Jafar A. Al-Zubi., Dynamic Redundancy FEC for Supporting Video Delivery over IP Networks. Australian Journal of Basic and Applied Sciences, 8(2) February 2014.

✓ CONFERENCES

- 1) Mahmoud Al-Shugran, Osman Ghazali, Suhaidi Hassan, **Omar Almomani** and Kashif Nisar, "Comparative Performance Evaluation of Unicast Routing Protocols in Mobile Ad-hoc Network," The 3rd International Conference on Network Applications, Protocols and Services (3rd NETAPPS2012) in EDC, Sintok, Malaysia, 19-21 September 2012.
- 2) Mahmoud Al-Shugran, Osman Ghazali, Suhaidi Hassan, **Omar Almomani** and Kashif Nisar, "Adaptive and Fuzzy Queue Management for Greedy Routing in Mobile Ad-hoc Networks," The 3rd International Conference on Network Applications, Protocols and Services (3rd NETAPPS2012) in EDC, Sintok, Malaysia, 19-21 September 2012.
- 3) Mohammed Madi, Yuhanis Yusof, Suhaidi Hassan and **Omar Almomani**, "A Novel Replica Replacement Strategy for Data Grid Environment," In Software Engineering and Computer Systems. Springer Berlin Heidelberg, 2011, Volume 181, Part 6, pp. 717-727. URL: http://dx.doi.org/10.1007/978-3-642-22203-0_60
- 4) **Omar Almomani**, Suhaidi Hassan, Osman Ghazali, Shahrudin Awang Nor, and Mohammed Madi, "Impact of Large Block FEC with Different Queue Sizes of Drop Tail

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- and RED Queue Policy on Video Streaming Quality over Internet", in the Proceedings of the 2nd International Conference on Network Applications, Protocols and Services 2010, Alor Setar, Kedah, Malaysia. 22-23 September 2010. Published by the IEEE Computer Society's CPS, indexed by the IEEE Xplore and Scopus. ISBN: 978-1-4244-8048-7.
- 5) **Omar Almomani**, Osman Ghazali and Suhaidi Hassan, "A Design of Dynamic FEC Redundancy Adjustment for Improving Video Streaming Quality over Internet ", in the Proceeding in The 2nd International Conference on Engineering and ICT, February, Melaka, Malaysia, 2010.
 - 6) **Omar Almomani**, Osman Ghazali and Suhaidi Hassan, "Performance Study of Large Block Forward Error Correction with Random Early Detection Queue Policy", in the Proceedings of the 2009 IEEE Symposium in Industrial Electronics and Applications, Kuala Lumpur, Malaysia, October 2009. (Indexed by Scopus and IEEExplore).
 - 7) **Omar Almomani**, Osman Ghazali and Suhaidi Hassan, "Performance Study of Large Block FEC with Drop Tail for Video Streaming over the Internet", in the Proceedings of The First International Conference on Networks & Communications, Chennai, India, December 2009, (Indexed by IEEExplore).
 - 8) **Omar Almomani**, Suhaidi Hassan and Osman Ghazali, "Optimal FEC Block Size for Media Streaming Over Internet", in the Proceedings of the International Graduate Conference on Engineering and Science, Johor Bahru, Malaysia, December 2008.
 - 9) **Omar Al-Momani**, Shahrudin Awang Nor and Suhaidi Hassan, "The Effect of Packet Size on FEC Performance", in the Proceedings of the International Conference on Network Applications, Protocols and Services, Sintok, Malaysia, November 2008.
 - 10) **Omar almomani** and Suhaidi Hassan" The Effects of FEC Blocks Number in Media Streaming over Internet", Accepted in The International Conference on Computer and Electrical Engineering, Phuket Island, Thailand. December 20-22, 2008
 - 11) Shahrudin Awang Nor, Suhaidi Hassan, and **Omar Almomani** "Simulated Performance of VoIP using DCCP CCID2 over Large Delay Link Networks" in the Proceeding of the International Conference on Network Applications, Protocols and Services, Sintok, Malaysia, November 2008.
 - 12) Shahrudin Awang Nor, Suhaidi Hassan, and **Omar Almomani**" The Effect of Initial Slow-start Threshold Size in DCCP over Large Delay Link Networks" in the Proceeding of the International Conference on Electronic Design, Penang, Malaysia. 1-3rd December 2008, (Indexed by IEEExplore).

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✓ CONFERENCES, WORKSHOPS and COURSES:

- 1) September 22th - 23th 2010, The Second International Conference on Network Applications, Protocols and Services, Holliday Villa & Suite, Alor Setar, Kedah Darul Aman, Malaysia.
- 2) July 24th 2010, Internet Society Malaysia's InterNetWorks Research Seminar, held at Main Meeting Room, IT Building, Organized by College of Arts and Sciences, Universiti Utara Malaysia, Malaysia.
- 3) October 4th-6th 2009, 2009 IEEE Symposium on Industrial Electronics & Applications, held at Best Western Premier Seri Pacific Hotel, Kuala Lumpur, Malaysia.
- 4) July 20th – 23rd 2009, 28th APAN Network Research Workshop, held at the Berjaya Times Square Hotel, Kuala Lumpur, Malaysia.
- 5) December 23rd and 24th 2008, International Graduate Conference on Engineering and Science, held at UTM Skudai, Johor, Malaysia.
- 6) November 21st and 22nd 2008, International Conference on Network Applications, Protocols and Services, held at the Executive Development Center, Sintok, Malaysia
- 7) February 27th 2008, Workshop on Model-base Systems for Industrial Applications, organized by College of Arts and Sciences, Universiti Utara Malaysia, Malaysia.
- 8) April 1st 2007, Seminar on Inter-cultural Communication, held at the Executive Development Center, Universiti Utara Malaysia, Sintok, Kedah, Malaysia.
- 9) August 24th 2006, MSC University-Industry Collaboration Commercialization Form MSN UICCF@UUM, organized by: Faculty of Information Technology, UUM and Multimedia Development Corporation, MDeC.
- 10) 1st Feb to 2nd May 2003, Course on Advance Office Automation Tools & Internet, Allam I.I Kazi Institute of Information Technology, Hyderabad, Pakistan.
- 11) August 27th -29th 2002, Course on understanding of MATLAB towards the solution of physical problems, organized by the Directorate of Continuing Education, Mehran University of Engineering & Technology, Jamshoro, Pakistan.
- 12) 2002, Indus Valley Expo Asia 2002 (Software Competition), sponsored by Isra University, Hyderabad, Pakistan.
- 13) 2002, Indus Valley Expo Asia 2002 (On-spot Programming), sponsored by Isra University, Hyderabad, Pakistan.

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✓ **MEMBERSHIP:**

Member of InterNetWorks Research Group, College of Arts and Sciences, Universiti Utara Malaysia, Malaysia.

✓ **REVIEWER OF ARTICLES IN JOURNAL AND CONFERENCES:**

- 1) Universal Journal of Computer Science and Engineering Technology,
- 2) The International Conference on Network Applications, Protocols and Services, Sintok, Kedah, Malaysia, November 21-22, 2008.
- 3) The International Conference on Computer & Communication Engineering, Kuala- Lmpur, Malaysia, May 11-13, 2010.
- 4) The 2nd International Conference on Network Applications, Protocols and Services (NETAPPS2010), Kedah, Malaysia. 22 - 23 Sep 2010,
- 5) 2011 IEEE Conference on Open Systems (ICOS 2011). Langkawi, Malaysia, 25 – 28 September 2011.
- 6) 2011 4th IEEE International Conference on Computer Science and Information Technology (ICCSIT 2011). Chengdu, china. 10-12 June 2011.
- 7) 2nd International Conference on Software Engineering and Computer Systems, Pahang, Malaysia, June 27-29, 2011.

✓ **REFEREES:**

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Universiti Utara Malaysia
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✓ LANGUAGE PROFICIENCY :

Arabic: Mother tongue

English: Very Good