

DR. MOHAMMED HAWA

د. محمد حوا

- Experience** **Assistant Professor** **2003-Current**
University of Jordan **Amman, Jordan**
An integral part of the faculty of Electrical Engineering at the University of Jordan. Teaching and supervising **graduate** and undergraduate students in advanced courses in **computer networking**, communications theory and microprocessors. Consistent outstanding scores in student-based **evaluations**. An active member of the department technical and administrative Committees.
- Education**
- Ph.D. in Electrical Engineering** **1999-2003**
University of Kansas **Kansas, US**
Researched *Quality-of-Service (QoS)* support in **WiMAX** Broadband Wireless Networks, while establishing a close partnership with **Sprint Corporation**. Developed hands-on experience in simulation, mathematical analysis and system design. Achieved a **GPA** of **4.0** (out of 4.0).
- M.Sc. in Telecommunications** **1998-1999**
University College London **London, UK**
Achieved a *Distinction* honor. Researched traffic modeling, *self-similarity* and deterministic trends in Web Cache traffic using *Wavelet* analysis. Collaborated with **British Telecom Labs** and completed an internship there.
- B.Sc. in Electrical Engineering** **1992-1997**
University of Jordan **Amman, Jordan**
GPA of **3.79** (out of 4.0) rating Excellent. Gained a very solid background in the fundamentals of electrical engineering.
- Honors and Distinctions**
- **Highest student evaluation scores** in the department for five years in a row, University of Jordan, 2003 – 2008.
 - **Fulbright Scholarship**, University of Kansas, 1999.
 - **M.Sc. with Distinction**, University College London, 1999.
 - **Shell Centenary Scholarship**, University College London, 1998.
 - **Top Student in Class**, University of Jordan, 1997.
 - **Ministry of Education Scholarship**, University of Jordan, 1992.
- Books and Book Chapters**
- Mohammed Hawa, **Cooperation Incentives: Issues and Design Strategies** in: N. Antonopoulos, G. Exarchakos, M. Li, and A. Liotta (Eds.), "Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications," Information Science Publishing, 2010, ISBN: 1-61520-686-8.
 - Jamal S. Rahhal, Dia I. Abu-Al-Nadi and Mohammed Hawa,

Evolutionary Computation in Coded Communications: An Implementation of Viterbi Algorithm in: ... (Eds.), "Evolutionary Computation," IN-TECH, *In Press*, ISBN: 978-953-7619-X-X.

- Mohammed Hawa and Andraws Swedan, **Digital Communication Networks**, Quds Open University Press, Amman, Jordan, 2008 (*in Arabic*).

Papers

- Mohammed Hawa, "**Light-Assisted Path Planning for Mobile Robots**", Submitted to IEEE Transactions on Robotics, 2010.
- Mohammed Hawa, "**An OPNET Model for Peer-to-Peer Network Simulations**", Submitted to Simulation Modelling: Practice and Theory, 2009.
- Mohammed Hawa, Jamal S Rahhal, and Dia I. Abu-Al-Nadi, "**Modeling Shared Content on Peer-to-Peer Networks**", Submitted to Computer Communications, 2009.
- Mohammed Hawa, "**A Measurement Study of Shared Content on Peer-to-Peer Networks**," International Symposium on Performance Evaluation of Computer and Telecommunication Systems, pp. 277–284, 2008.
- Jamal S Rahhal, Dia I. Abu-Al-Nadi and Mohammed Hawa, "**Viterbi Decoder Algorithm Using Quantum Computing**," IEEE Congress on Evolutionary Computation, pp. 4094–4099, 2007.
- محمد خضر، محمد حوا، "تجربة استخدام المواقع الالكترونية للمساعدة في تدريس بعض المواد الهندسية في الجامعة الأردنية"، ندوة التقنيات الحديثة في التعليم و التدريب الهندسي، عمان، الأردن، 2005.
- Mohammed Hawa and David W. Petr, "**M/G/FQ: Stochastic Analysis of Fair Queueing Systems**," IEEE 2nd International Conference on Networking, pp. 368-381, 2002.
- Mohammed Hawa and David W. Petr, "**Quality of Service Scheduling in Cable and Broadband Wireless Access Systems**," Tenth International Workshop on Quality of Service, pp. 247-255, 2002.
- Mohammed Hawa, "**A Study of Deterministic Trends in Self-Similar Web-Cache Traffic using Wavelet Analysis**," LCS'99, London, UK, 1999.

Languages

English, Excellent.
Arabic, Fluent.

Memberships

- **Institute of Electrical and Electronics Engineers (IEEE).**
- **IEEE Gold Affinity Group (Jordan).**
- **Jordan Engineers Association (JEA).**

Interests

Computer Networks and Protocols, IP, Quality-of-Service, Queuing Systems, Wireless Networks and P2P Systems.