



School of Engineering

COMPREHENSIVE RESEARCH LISTS

Last Updated: March 2011

SCHOOL OF ENGINEERING

Alaa Ashmawy Dean and Professor of Civil Engineering
Mohamad Nagi Director, Infrastructure Sustainability and Assessment Center (ISAC)

DEPARTMENT OF CIVIL ENGINEERING

Elias Saqan Chair and Associate Professor of Civil Engineering
Edgar Small Associate Professor of Civil Engineering
Mohamad Ghanim Assistant Professor of Civil Engineering
Peiman Kianmehr Assistant Professor of Civil Engineering

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Hamid Shafiee Chair and Associate Professor of Electrical Engineering
Jinane Biri Instructor
Reza Khosravani Associate Professor of Electrical Engineering
Sohaib Majzoub Assistant Professor of Computer Engineering
Wael Bazzi Assistant Professor of Computer Engineering
Wathiq Mansoor Professor of Computer Engineering

DEPARTMENT OF MECHANICAL ENGINEERING

Kwon Joong Son Assistant Professor of Mechanical Engineering

Dr. Alaa K. Ashmawy

Dean of the School of Engineering / Professor of Civil Engineering

Select Publications

- Bourdeau, P.L., and **Ashmawy, A.K.** (2011), "Unpaved Roads," in Geosynthetics and Their Applications, Second Edition, S.K. Shukla, Editor. Thomas Telford Ltd.
- Das, N., Sukumaran, B., and **Ashmawy, A.K.** (2011), "Modeling Granular Particle Shape Using Discrete Element Method," Proceedings of the ASCE Geo-Institute Conference, GeoFrontiers 2011, Dallas, Texas.
- Sallam, A.M., and **Ashmawy, A.K.** (2009), "Effect of Particles Shape and Angularity on Dilation of Granular Soils: a Discrete Element Approach," Proceedings of the XVII International Conference on Soil Mechanics and Geotechnical Engineering, Alexandria, Egypt.
- Das, N., Sukumaran, B., and **Ashmawy, A.K.** (2008), "Modeling Granular Particle Shape Using Discrete Element Method," Proceedings of the First International FLAC/DEM Symposium on Numerical Modeling, Minneapolis, Minnesota.
- Abdelrahman, A.H., **Ashmawy, A.K.**, and Abdelmoniem, M. (2008), "An Apparatus for Direct Shear, Pullout, and Uniaxial Testing of Geogrids," Geotechnical Testing Journal, GTJODJ, ASTM, Vol. 31, No. 6, pp. 470-479.
- Abdelrahman, A.H., Abdelmoniem, M., and **Ashmawy, A.K.** (2007), "Utilization of a Large-Scale Testing Apparatus in Investigating and Formulating the Soil/Geogrid Interface Characteristics in Reinforced Soils," Australian Journal of Basic and Applied Sciences, Vol. 1, No. 4, pp. 415-430.
- Drnevich, V.P., **Ashmawy, A.K.**, Yu, X, and Sallam, A.M. (2005), "Time Domain Reflectometry for Water Content and Density of Soils: Analysis of Soil-Dependent Coefficients," Canadian Geotechnical Journal, Vol. 42, pp. 1053-1065.
- Ashmawy, A.K.** (2005), "Retaining Walls – Analysis and Design," in Foundation Engineering Handbook, M. Gunaratne, Editor. CRC Press.

Dr. Mohammad Nagi

Director, Infrastructure Sustainability and Assessment Center

Select Publications

- Nagi, M.** and Kilgour, R "Service Life Prediction of Concrete Structures," CANMET/ACI-Dubai, November 2008.
- Nagi, M.**, "Long-Term Performance of Galvanized Reinforcing Steel in Concrete Bridges-Case Studies," National Association of Corrosion Engineers, NACE, Paper No. 5264. April 2005.
- Nagi, M.**, "Corrosion Evaluation of Reinforced Concrete Bridges," ASCE Structures Congress, New York, NY April 2005.
- Nagi, M.**, Taylor, P., "Chloride Limits in Reinforced Concrete," To be published in ACI Materials Journal, 2005.
- Nagi, M.**, "Resistivity of Concrete, State-of-the-Art," National Association of Corrosion Engineers, NACE, Paper No. 4326. April 2004.
- Nagi, M.**, Tabatabai, H. and Whiting, D., "Laboratory Evaluation of Repairs for Pretensioned Bridge Members," Conference on Structural Faults and Repair 2003, London, U.K., July 2003.

DEPARTMENT OF CIVIL ENGINEERING

Dr. Elias I. Saqan

Chair of the Department of Civil Engineering / Associate Professor of Civil Engineering

Select Publications

R. A. Hawileh, **E. I. Saqan**, and H. Rasheed, "A Non-Dimensional Design Procedure for Flexural Strengthening of R/C Beams Using FRP," Proceedings, First Middle East Conference on Smart Monitoring, Assessment and Rehabilitation of Civil Structures, ISBN: 978-3-905594-58-4, Dubai, UAE, February 8-10, 2011.

E. I. Saqan, and H. Rasheed, "Simplified Nonlinear Analysis to Compute Neutral Axis Depth in Prestressed Concrete Rectangular Beams," *Journal of The Franklin Institute, Elsevier*, in press, [doi:10.1016/j.jfranklin.2010.09.005](https://doi.org/10.1016/j.jfranklin.2010.09.005).

E. I. Saqan, and R. A. Hawileh, "Non-Dimensional Design Charts for Unbonded Post-Tensioned Split Walls," *PCI Journal*, V.55 No. 4, 2010, pp. 78-99.

E. I. Saqan, and R. J. Frosch, "Influence of Flexural Reinforcement on Shear Strength of Prestressed Concrete Beams," *ACI Structural Journal*, V.106, No. 1, Jan.-Feb. 2009, pp. 60-68.

H. Rasheed, and **E. I. Saqan**, "Simplified Nonlinear Analysis to Compute Neutral Axis Depth in Prestressed Concrete Rectangular Beams," Proceedings, Third International Conference on Modeling, Simulation and Applied Optimization, Sharjah, UAE, January 20-22, 2009.

Dr. Edgar Small

Assistant Professor of Civil Engineering

Select Publications

Small, E.P., A Proposed Approach for Consideration of Seismic Risk Mitigation in US Bridge Management Systems, Proc. First International Conference on Bridge Maintenance, Safety and Management, Barcelona, Spain, July 2002.

Thompson, P.D.; **Small, E. P.**; Johnson, M., and Marshall, A., The AASHTOW are Pontis Bridge Management System, *Structural Engineering International, Journal of the International Association for Bridge and Structural Engineering*, Volume 8, No. 4, Nov. 1998, pp. 303-308.

Hawk, H. and **Small, E. P.**, The BRIDGIT Bridge Management System, *Structural Engineering International, Journal of the International Association for Bridge and Structural Engineering*, Volume 8, No. 4, November 1998, pp. 309-314.

Dr. Mohamad Ghanim

Assistant Professor of Civil Engineering

Select Publications and Presentations

Ghanim, M., Florida Statewide Design-Hour Volume Prediction Model, 90th Annual Meeting of the Transportation Research Board, 2011, Washington, D.C.

Ghanim, M., Transit Signal Priority Implementation, The 14th GCC Engineering Forum: ITS in Transportation Systems. December, 2010, Dubai, United Arab Emirates.

Ghanim, M., Dion, F., Abu-Lebdeh, G., and Najjar, Y., Optimizing Real-Time Transit Priority in Coordinated Traffic Networks with Genetic Algorithms, (2009), Computational Intelligence in Architecting Engineering Systems, Vol. 18, pp. 155-162.

Ghanim, M. and Dion, F., Integration of Transit Signal Priority and Real-Time Traffic Signal Control System in Coordinated Traffic Network, 88th Annual Meeting of the Transportation Research Board, 2009, Washington, D.C.

Ghanim, M., Dion, F., and Abu-Lebdeh, G., Artificial Neural Network Bus Arrival Time Prediction Tool for Transit Signal Priority with Nearside Bus Stop, 86th Annual Meeting of the Transportation Research Board, 2007, Washington, D.C.

Dion, F. and **Ghanim, M.**, Impact of Dwell Time Variability on Transit Signal Priority Performance at Intersections with Nearside Bus Stop, 86th Annual Meeting of the Transportation Research Board, 2007, Washington, D.C.

Dr. Peiman Kianmehr

Assistant Professor of Civil Engineering

Select Publications and Presentations

Kianmehr, P., Parker, W., and Seto, P. 2010, An Evaluation of Protocols for Characterization of Ozone Impacts on WAS Properties and Digestibility, Bioresource Technology, Vol. 101 (22), pp. 8565-8572.

Kianmehr, P., Parker, W., and Seto, P., 2011, Feasibility of Employing BAP Tests for Characterizing Anaerobic Biodegradability of WAS, submitted to Journal of Water Environment Research.

Kianmehr, P., Parker, W., and Seto, P., 2011, Assessment of Protocols for Evaluating WAS Pre-Treatment by Ultrasound, submitted to Journal of Environmental Engineering, ASCE.

Kianmehr, P., Parker, W., and Seto, P., May 2010, An Assessment of Feasibility of Employing BAP Test for characterizing Anaerobic Biodegradability of WAS, Residuals and Biosolids Conference (WEF), Savannah, Georgia, USA.

Kianmehr, P., Parker, W., and Seto, P., October 2009, Characterization of Ozone Impacts on WAS Properties and Digestibility, 82nd Annual Water Environment Federation Technical Exhibition and Conference, Orlando, Florida, USA.

Kianmehr, P., Parker, W., and Seto, P., April 2009, Characterization of WAS Pretreatment by Ozonation, 38th Annual WEAO Technical Symposium and OPCEA Exhibition, Toronto, Canada.

Kianmehr, P., Parker, W., and Seto, P., Feb 2009, Development of Protocols for Predicting the Impact of Ozonation On WAS Digestibility, 44th CAWQ conference, Burlington, Canada.

Kianmehr, P., Parker, W., and Challen-Urbanc, J., October 2008, Development of Protocols for Evaluating WAS Pre-treatment Processes, 81st WEFTEC 2008, Chicago, Illinois, USA.

Kianmehr, P., Parker, W., and Challen-Urbanc, J., May 2008, Characterization of WAS Pretreatment, 37th Annual WEAO Technical Symposium and OPCEA Exhibition, Collinwood, Canada.

Kianmehr, P., Parker, W., and Challen-Urbanc, J., Feb 2008, Characterization of WAS Pretreatment by Ultrasound, 43rd CAWQ conference, Burlington, Canada.

Kianmehr, P., Parker, W., and Challen-Urbanc, J., March 2008, Development of Protocols for Predicting the Impact of Pre-treatment Technology (ultrasound) on WAS Digestibility, Residuals and Biosolids Conference (WEF), Philadelphia, USA.

Kianmehr, P., Parker, W., and Challen-Urbanc, J., October 2008, Development of Protocols for Evaluating WAS Pre-treatment Processes, 81st WEFTEC 2008, Chicago, Illinois, USA.

DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING

Dr. Hamid Shafiee

Chair of the Department of Electrical and Computer Engineering / Associate Professor of Electrical Engineering

Selected Publications

J. Vazifehdan and **H. Shafiee**, Multi-branch Configuration of Dynamic Wireless Cooperative Networks, Proc. of ICSPC, 2007, Dubai, UAE.

J. Vazifehdan and **H. Shafiee**, Efficient Configuration of Multi-branch Wireless Cooperative Networks, Proc. of Symp. on WCS, 2007, Oslo, Norway.

G. Foudazi and **H. Shafiee**, Adjacent Channel Rejection in OFDM Wireless Local Area Networks, Proc. of WOCN, 2006, Bangalore, India.

M. Valipour and **H. Shafiee**, Performance Comparison of Space-time Coded MC-CDMA Systems, Proc. of WOCN, 2005, Dubai, UAE.

M. Koochakzadeh and **H. Shafiee**, "A wideband Subsample Delay Estimation Technique", Proc. of ICISIP, 2005, Bangalore, India

H. Shafiee, B. Nourani and M. Khoshgard, "Estimation and Compensation of Frequency Offset in DAC/ADC Clocks in OFDM Systems", Proc. of ICC, 2004, Paris, France.

S. Fouladifard and **H. Shafiee**, "Analysis and compensation of receiver non-idealities in wireless transceivers, Scientia Iranica. Summer 2004.

H. Shafiee, B. Nourani and M. Khoshgard, "Joint compensation and tracking of frequency offsets in RF mixers and DAC/ADC clocks in OFDM, Proc. of ICCS, 2004, Singapore.

H. Shafiee and S. Fouladifard, "Calibration of IQ imbalance in OFDM transceivers, Proc. of ICC, 2003, Anchorage, AK.

S. Fouladifard and **H. Shafiee**, Frequency Offset estimation in OFDM Systems in Presence of IQ Imbalance, Proc. of ICC, 2003, Anchorage, AK.

B. Nourani and **H. Shafiee**, The Impact of Synthesizer Transient Response on Radio Receivers, Proc. of ISSPA, 2003, Paris, France.

S. Fouladifard and **H. Shafiee**, "On Adaptive Cancellation of IQ Mismatch in OFDM Receivers", Proc. of ICASSP, 2003, Hong Kong.

Patents

H. Shafiee and B. Rub, 2002, "Full and Half-rate Signal Space Detection for Channels with a Time-varying MTR Code", US Patent No. US6404573.

H. Shafiee and B. Rub, 2001, "Static Viterbi Detectors for Channels Utilizing a Code Having Time-varying Constraints", US Patent No. US6212661.

H. Shafiee and B. Rub, 2001, "Method and Apparatus for Detecting Data in Magnetic Recording Using Decision Feedback", US Patent No. US6201840.

H. Shafiee, R. Kost and B. Rub, 2000, "Method and Apparatus for Detecting Data in Magnetic Recording Using Decision Feedback", US Patent No. US6061193.

H. Shafiee and B. Rub, 1999, "Signal Space Detector for Channels Utilizing a Code Having Time-varying Constraints", US Patent No. US05936558.

Dr. Sohaib Majzoub

Assistant Professor of Computer Engineering

Select Publications

S. Majzoub, Energy Optimization for Many-Core Platforms: under Process, Voltage and Temperature Variations, VDM Verlag, 168 pages, October 13, 2010, ISBN: 3639301056.

Selected Refereed Journal Publications

S. Majzoub, "Instruction-Based Voltage Scaling for Power Reduction in SIMD-Based MPSoCs," in Journal of Low Power Electronics (JOLPE) - Vol. 7, N° 2, April 2011.

S. Majzoub, R. Saleh, S. J.E. Wilton and R. Ward "Energy Optimization for Many-Core Platforms: Communication and PVT Aware Voltage-Island Formation and Voltage Selection Algorithm," in IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (IEEE-TCAD), Vol. 29, No. 5, May 2010.

S. Majzoub, H. Diab "MorphoSys Reconfigurable Hardware for Cryptography: The Twofish Case," in Journal of Supercomputing (JSC), Vol. 57, Issue 2, 2011.

S. Majzoub, and H. Diab, "Instruction-Set Extension For Cryptographic Applications On Reconfigurable Platform" Special Issue on Advances in Circuits and Systems for Large Scale Integration, in The Journal of Circuits, Systems, and Computers, (JCSC) Vol. 16, No. 6, 2008.

Selected Refereed Conference Publications

S. Majzoub, "Voltage Island Design in Multi-Core SIMD Processors," The 5th International Design and Test Conference (IDT'10), pp. 18-23, Dec. 14-15 2010, Abu Dhabi, UAE.

S. Majzoub, R. Saleh, S. J.E. Wilton, and R. Ward "Simultaneous PVT-Tolerant Voltage-Island Formation and Core Placement for Thousand-Core Platforms," International Symposium on System-on-Chip (SoC'09), pp. 1-4, Oct. 5-7 2009, Tampere, Finland.

S. Majzoub, R. Saleh, S. J.E. Wilton, and R. Ward "Removal-Cost Method: An Efficient Voltage Selection Algorithm for Multi-Core Platforms under PVT," 22nd IEEE International System-on-Chip Conference (SoCC'09), pp. 357-360, Sep. 9-11 2009, Belfast, UK.

S. Majzoub, R. Saleh, and R. Ward, "PVT Variation Impact on Voltage Island Formation in MPSoC Design," Proceedings of the 2009 10th International Symposium on Quality of Electronic Design (ISQED'09), pp. 814-819, Mar. 16-18 2009, San Jose, CA, USA.

S. Majzoub, H. Diab, "Instruction-Set Extension for Cryptographic Applications on Reconfigurable Platform" The 6th International Workshop on System-on-Chip for Real-Time Applications, (IWSoC'06), pp.173-178, Dec. 27-29, 2006, Cairo, Egypt.

S. Majzoub, R. Saleh, and H. Diab, "Reconfigurable Platform Evaluation Through Application Mapping And Performance Analysis," The 6th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'06), pp.496-501, Aug. 27-30, 2006, Vancouver, Canada.

Dr. Wael Bazzi

Assistant Professor of Computer Engineering

Honors and Awards

1. University of Waterloo Graduate Research Assistantship, 2002-2004 Charli S. Korban Award: Awarded to the most outstanding graduate student in the Electrical and Computer Engineering Department at the American University of Beirut, December 1999 2/3
2. Dean's Award for Creative Achievement: Awarded to a student in each of the main programs of the Faculty of Engineering and Architecture at the American University of Beirut who has demonstrated outstanding creativity in his/her approach to academic work (1996)

Selected Publications

W. Bazzi and A. Haj-Ali, "Interference Statistics Evaluation in Co-Channel Femtocell Networks," in Proceedings of the International Conference on Next Generation Wireless Networks (NGWS'09), Melbourne, Australia, October 2009.

W. Bazzi, F. Karray, and S. Al-Sharhan, "Mobile Position Estimation in Wireless Communication Systems Using Tools of Soft Computing," *Lecture Notes on Systems, Signals & Devices*, Shaker Verlag, Germany, 2005.

W. Bazzi and F. Karray, "Interference and Error Probability Evaluation in Multiservice Interference Limited Wireless Ad Hoc Networks," in *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC'04)*, Atlanta, Georgia, USA, March 2004.

W. Bazzi and F. Karray, "Mobile Position Estimation Using an RBF Network in CDMA Cellular Systems," in *Proceedings of the Second IEEE International Conference on Signals, Systems, Decision & Information Technology (SSD'2003)*, Sousse, Tunisia, March 2003.

W. Bazzi and M. A. Al-Alaoui, "Subband Transform Coding for Image Compression," in *Proceedings of the joint meeting of the 5th World Multiconference on Systemics, Cybernetics and Informatics (SCI 2001) and the 7th International Conference on Information Systems Analysis and Synthesis (ISAS 2001)*, Orlando, Florida, USA, July 2001.

W. Bazzi and M. A. Al-Alaoui, "Using Transform Coding in the Subbands in Subband Coding," in *Proceedings of the International Conference on Scientific Computations*, Lebanese American University, Beirut, Lebanon, March 1999.

W. Bazzi, K. Azar, and M. A. Al-Alaoui, "Image Registration in Geographical Information Systems," in *3/3 Proceedings of the International Conference on Scientific Computations*, Lebanese American University, Beirut, Lebanon, March 1999.

W. Bazzi, "Optimum Resource Allocation in Multiservice Interference-Limited Wireless Ad Hoc Networks with Quality of Service Constraints," *Ph.D. Thesis*, Department of Electrical and Computer Engineering, University of Waterloo, Waterloo, Ontario, Canada, September 2004.

W. Bazzi, "Subband Transform Coding for Image Compression," *Master's Thesis*, Department of Electrical and Computer Engineering, American University of Beirut, Beirut, Lebanon, May 1999.

Professional Service

1. TPC member, IEEE Wireless Communications & Networking Conference, Sydney, Australia, 18-21 April 2010.
2. Invited speaker, "LTE Advanced-Femto Cell Spotlight 2010: Opportunities in the 4G Revolution," Dubai, UAE, 26-27 January 2010.
3. Invited speaker, Global Telecom Summit 2009, "Telecom Convergence Middle East-Africa-South Asia 2009," Doha, Qatar, 28-29 April 2009.
4. Organizing committee member, IEEE UAE Student Day, 2009.
5. Steering committee member, Mobile Application Contest, Dubai, UAE, 2009.
6. Delegate, the 5th WTA Dubai Techno Mart, Technology for Sustainable Growth, Dubai International Convention and Exhibition Centre, April 2008.
7. Session chair, International Conference on Audio, Language and Image Processing, Shanghai, China, July 2008.
8. Steering committee member, Mobile Application Contest, Dubai, UAE, 2008.
9. Reviewer for IET (The institute of Engineering and Technology) Communications.
10. Reviewer for IEEE Wireless Communications & Networking Conference (WCNC'07).
11. Reviewer for Journal of Parallel and Distributed Computing (JPDC).
12. Reviewer for IEEE Transactions on Systems, Man, and Cybernetics, Part B.
13. Session chair, 1st Sharjah Geographic Information Systems Symposium (SGIS07), UAE, 2007.

Dr. Wathiq Mansoor

Professor of Computer Engineering

Publications and Presentations

Book Editing

Gabillon, Q. Sheng and **W. Mansoor**, *Web-Based Information Technologies & Distributed Systems*, Atlantis Press, June 2010, **ISBN: 9789078677284**.

Journals Editing

1. **W. Mansoor**, Guest Editor for the Journal of Pervasive Computing and Communications, Special Issue on Managing Context Information in Mobile and Pervasive Environments. Vol. 2, Issue 4, 2007.

Refereed journal papers and Book Chapters

2. G. Kbar, **W. Mansoor**, "Distributed Resources Management in Wireless LAN," Book chapter in Selected Readings on Telecommunications and Networking, Edited By: Jairo Gutierrez , University of Auckland, NZ 2008. <http://www.igi-pub.com/reference/details.asp?ID=8112&v=tableOfContents>
3. G. Kbar, **W. Mansoor**, "Distributed Resources Management In Wireless LANs, International Journal of Business Data Communications and Networking", 2(4), 46-58, October-December 2006.
4. Z. Maamar, H. Yahyaoui, and **W. Mansoor**. "Design and Development of an M-Commerce Environment: The E-CWE Project". Journal of Organizational Computing and Electronic Commerce, Lawrence Erlbaum Associates Publishers, 14(4), pp 285-303, 2004.
5. Z. Maamar and **W. Mansoor**. "Design and Development of a Software Agent-based and Mobile Service-Oriented Environment". E-Service Journal, Indiana University Press, 2003.
6. Z. Maamar and **W. Mansoor**. "SAMOS Software Agents for MOBILE Services". AgentLink News, ISSN~1465-3842, No. ~10, July~2002.
7. Z. Maamar, H. Yahyaoui, **W. Mansoor**, and W. Heuvel," Software Agents and Wireless E-Commerce," ACM SIGecom Exchanges Newsletter Vol. 2.3 Summer 2001. [http://www.acm.org/sigs/sigecom/exchanges/volume_2_\(01\)/2.3-index.html](http://www.acm.org/sigs/sigecom/exchanges/volume_2_(01)/2.3-index.html).
8. H. Al-Nashash, Y. Al-Assaf, B. Lvov, **W. Mansoor**," Classification of Material types using Laser speckle wavelets and artificial Neural Networks," Materials evolution Journal, Vol. 59/9, pp 1072-1078, September 2001, Thompasssek.
9. **W. Mansoor**, E. Claridge, "2-Dimensional FFT Implementation on a Transputer Network," IASTED Journal of Microcomputer Applications, Vol. 8, No. 1, 1989, USA.

Papers in refereed conference/workshop proceedings

Z. Maamar, Sami Bhiri, Samir Tata, Khoulood Boukadi, **W. Mansoor** ,"Conceptual Analysis of Transactional-, Capacity-driven Web Services", The proceedings of the 25th IEEE International Conference on Advanced Information Networking and Applications (AINA-2011) Biopolis, Singapore, March 22-25, 2011.

W. Mansoor, " Intelligent Healthcare System: Semantic Web Approach", Presented at Service-Oriented Architecture and (Multi-)Agent Systems Technology seminar, Schloss Dagstuhl, Germany, January 2010.

Z. Maamar, Y. Baghdadi, **W. Mansoor**," Towards an Approach for Enterprise Application Integration," The proceedings of IEEE International Conference of Information Reuse and Integrations IRI 2010.

G. Kbar, **W. Mansoor**, and A. Naim," Voice over IP Mobile Telephony Using WIFI P2P and WLAN in addition to GSM," Submitted to The Fifth International Multi-Conference on Computing in the Global Information Technology ICCGI 2010 September 20-25, 2010 - Valencia, Spain.

G. Kbar, **W. Mansoor**," Token-based Fast Authentication for Wireless Network") Proceedings of the International Conference on Information Resources Management, Dubai, May 21-23, 2009.

G. Kbar, **W. Mansoor**," Implementation of Efficient seamless non-broadcast Routing algorithm for Wireless Mesh Networks" the Proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 08) December 5 - 13, 2008.

G. Kbar, **W. Mansoor**," Efficient seamless non-broadcast Routing algorithm for Wireless Mesh Network'," the proceedings of the Second International Conference on New Technologies, Mobility and Security (NTMS'2008) Tangier, Morocco 5-7 November 2008.

G. Kbar, **W. Mansoor**, "Securing the Wireless LANs against internal attacks using second level of PoliceEncryption", The proceedings of the second international conference on Information Systems, Technology, and Management, Dubai, 6-8 March, 2008.

G. Kbar, **W. Mansoor**, "Securing the Wireless LANs that is based on Distributed Resource Management against internal attacks", The proceedings of the 4th International Conference on Innovations in InformationTechnology (Innovations'07), Dubai, November 2007.

G. Kbar, **W. Mansoor**, "Securing the Wireless LANs Against Internal Attacks", The proceedings of the Third International Conference on Mobile Ad-hoc and Sensor Networks (MSN 2007) 11~14 December 2007, Centralgarden Hotel ,Beijing China.

G. Kbar, **W. Mansoor**, "Analysis of Distributed Resource Management in Wireless LANs that support Fault Tolerance", The Proceedings of the Fifth International Workshop on Wireless Information Systems (WIS 2006) (Innovative wireless applications, protocols, and systems), Cyprus, May 2006.

Z. Maamar, Q. Mahmoud, A. Derhab, **W. Mansoor**, "Ad-Hoc Collaboration Between Messengers - Motivations, Challenges, and Solutions -", The Proceedings of MDM 2006, Japan, 2006.

G. Kbar, **W. Mansoor**, "Testing The Performance Of Wireless LAN", The 11th Asia Pacific Conference on Communications (APCC), Perth, Western Australia, October 3-5, 2005.

G. Kbar, **W. Mansoor**, "Distributed Resource Management in Wireless LANs," The International Conference on Innovations in Information Technology IIT'05, Dubai September 26-28 2005.

G. Kbar, **W. Mansoor**, "Mobile Station Location based on Hybrid of Signal Strength and Time of Arrival", The Fourth International Conference on Mobile Business, July 11 - 13, 2005, Sydney Australia

Z. Maamar, G. Alkhatib, S. Mostefaoui, M. Lahkim, and **W. Mansoor**. "Context-based Personalization of Web Services Composition and Provisioning" Proceedings of The 30th IEEE EUROMICRO Conference - Software Process and Product Improvement~(EUROMICRO'2004), Rennes, France, September 2004.

Z. Maamar, H. Yahyaoui, Q. Mahmoud, S. Mostefaoui, and **W. Mansoor**. "Messengers for the Dynamic Management of Distributed UDDI Registries" in Proceedings of The First Annual International Conference on Mobile and Ubiquitous Systems: Networking and Services (MobiQuitous'2004), Boston, Massachusetts, USA, August 2004.

W. Mansoor and Z. Maamar. "Aeronautical Mobile Data Management Using Agent Technology" Proceedings of The 2003 International Conference on Information Systems and Engineering (ISE'2003), Montreal, Quebec, Canada, July 2003.

Z. Maamar, H. Yahyaoui, **W. Mansoor**, and A. Bhati. "Towards an Environment of Mobile Services: Architecture and Security" Proceedings of the 2003 International Conference on Information Systems and Engineering (ISE'2003), Montreal, Quebec, Canada, July 2003.

Z. Maamar, B. Benatallah, and **W. Mansoor** "Service Chart Diagrams - Description \& Application" Proceedings of The Twelfth International World Wide Web Conference~(WWW'2003), Budapest, Hungary, May 2003.

Z. Maamar, E. Bataineh, **W. Mansoor**, and H. Yahyaoui. "A Software Agent-based M-Commerce System: Design and Development" Proceedings of The International Conference on Intelligent Agents, Web Technologies and Internet Commerce (IAWTIC'2003)}, Vienna, Austria, February 2003.

Z. Maamar, P. Labbe, **W. Mansoor**, "Software Agents for Coalition Forces," Second International Conference on Knowledge Systems for Coalition Operations, KSCO-2002, 23rd-24th April 2002.
<http://www.aii.ed.ac.uk/project/coalition/KSCO/kSCO-2002/kSCO-2002-agenda.html>

- Z. Maamar, P. Labbe, **W. Mansoor**, E. Bataineh, "Influence in MultiAgent Systems-Application to Coalitions," Second International Conference on Knowledge Systems for Coalition Operations, KSCO-2002, 23rd-24th April 2002.<http://www.aiai.ed.ac.uk/project/coalition/KSCO/kSCO-2002/kSCO-2002-agenda.html>
- Z. Maamar and **W. Mansoor**, Q. Mahmoud, "Software Agents in the Wireless World- Application to Mobile Services," Workshop on M-Services /Concepts/Concepts, Approaches, Tools, 26-29 June 2002 Lyon, France. <http://www.elcomag.com/Mservices2002Workshop>.
- Z. Maamar and **W. Mansoor**, Q. Mahmoud, "Software Agents to Support Mobile Services," The First International Joint Conference on Autonomous Agents and Multi-Agent Systems AAMAS 2002, July 15-19 BOLOGNA, ITALY. <http://www-lia.deis.unibo.it/aamas2002>.
- Z. Maamar and **W. Mansoor**, H. Yahyaoui,"E-Commerce through Wireless Devices," Proceedings of the Tenth IEEE International Workshop On Enabling Technologies: Infrastructure For Collaborative Enterprises, June 20-22, 2001, MIT, Cambridge, Massachusetts.
- H. Al-Nashash, Y. Al-Assaf, B. Lvov, **W. Mansoor**, " Classification of Material types using Laser speckle wavelets and artificial Neural Networks," Materials evolution Journal, Vol. 59/9, pp 1072-1078, September 2001, Thompasssek.
- W. Mansoor**, H. Al-Nashash, Y. Al-Assaf,"Image Classification Using Wavelets and Neural Networks,"Proceedings of the Nineteenth IASTED International Conference: Modelling, Identification And Control, February 14-17, 2000, Innsbruck, Austria.
- W. Mansoor**, 'OO in Industry: Distributed Component Object Modeling', The Proceedings of University of Bahrain First Computer Science Forum, 16-17 November 1999.
- W. Mansoor**, the Analysis and Design of Speech Ware System, Technical Report, Applied Voice Technology, Sydney, 1998.
- W. Mansoor**, Broker Design and Implementation for Speech Ware System, Technical Report, Applied Voice Technology, Sydney, 1998.
- W. Mansoor**, The Analysis and Design of Digital Dictation System, technical Reports, Applied Voice Technology, 1997, Sydney.
- W. Mansoor** et al,"The Segmentation of Magnetic Resonance Images of the Brain using Neural Networks". The IASTED International Conference on Applied Informatics held in Innsbruck, Austria, February 21-23, 1995.
- W. Mansoor** , E. Al-hujazi, " Invariant Corner Detection Using Higher Order Neural Network," The Proceedings of the Third IASTED International Conference on Reliability, Quality Control and Risk Assessment, October 3-4, 1994, Washington D. C., USA.
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- W. Mansoor**, E. Sokolowska," A Hierarchical Architecture for Image Segmentation," The Proceedings of the International Conference on Parallel Processing for Computer Vision and Display, University of Leeds, U. K., January 12-15, 1988.

Workshops Organizations

1. Engineering Education Track Chair, 2011 IEEE GCC Conference & Exhibition, "For Sustainable Ubiquitous Technology", 19-22 February 2011, Dubai, United Arab Emirates.
<http://www.ieeegcc.org/gcc/>
2. Bioinformatics Track chair, First Middle East Conference on Biomedical Engineering, Feb. 21 - 24, 2011, Sharjah, UAE. <http://mecbme.trackchair.com/>
3. International Workshop on the Role of Services, Ontologies, and Context in Mobile Environments (RoSOC-M 2010) May 23, 2010, Kansas City, Missouri, USA <http://users.jyu.fi/~veijalai/rosocm10/>
4. 1st International Workshop on Recent Trends in SOA Based Information Systems - RTSOABIS 2010 m8-12 June, 2010 - Funchal, Madeira, Portugal <http://www.iceis.org/Workshops/rtsoabis/rtsoabis2010-cfp.htm>
5. Track Chair of Collaborative Healthcare Systems: Issues, Solutions, and Trends, as part of International Conference on Networking and Collaborative Systems (INCoS-2010) Thessaloniki, Greece, November 24-26, 2010. <http://incos2010.web.auth.gr/generalinfo.html>
6. Workshop Organizer: International Workshop on the Role of Services, Ontologies, and Context in Mobile Environments (RoSOC-M '09) May 18-20, Taipei, 2009 in conjunction with the 9th International Conference on Mobile Data Management (MDM'09). <http://events.sti2.at/RoSOC-M/>
7. Track Organizer: Track on Web-Based Information Technologies & Distributed Systems (WITDS) The Fourth International Conference on SIGNAL-IMAGE TECHNOLOGY & INTERNET-BASED SYSTEMS In cooperation with ACM Sigapp.fr, IEEE (pending) November 30th to December 3rd, 2008 Bali, Indonesia <http://www.u-bourgogne.fr/sitis> .
8. Workshop Organizer: International Workshop on the Role of Services, Ontologies, and Context in Mobile Environments (RoSOC-M '08) April 27, 2008, Beijing, China in conjunction with the 9th International Conference on Mobile Data Management (MDM'08). <http://events.deri.at/RoSOC-M/>
9. Workshop Organizer: Workshop on Web Services and Geographic Information Systems (WSGIS'2007) in conjunction with The 2nd IEEE International Conference on Digital Information Management (ICDIM'2007). Lyon, France, 29-31 October 2007, <http://www.icdim.org>.
10. Workshop Organizer: Second International Workshop on Managing Context Information and Semantics in Mobile Environments (MCISME) in conjunction with the 8th International Conference on Mobile Data Management (MDM'06), Mannheim, Germany, May 7-11, 2007. <http://mcisme2007.deri.ie/>
11. Workshop Organizer: International Workshop on Managing Context Information and Semantics in Mobile Environments (MCISME) in conjunction with the 7th International Conference on Mobile Data Management (MDM'06), Nara, Japan, May 9-12, 2006. <http://sirwww.epfl.ch/mcisme/>
12. Workshop Organizer: MCMP-05. First International Workshop on Managing Context Information in Mobile and Pervasive Environments. May 9, 2005, Ayia Napa, CYPRUS.
13. Workshop organizer: workshop on M-Services/Concepts, Approaches. Tools. Lyon, France June 2002.
14. Workshop Organizer: workshop on Ubiquitous Agents on Embedded, Wearable, and Mobile Devices. Italy July 2002

Miscellaneous

1. Development of the ABET Accredited Computer Engineering Program at American University in Dubai, 2008.
2. Engineering Letters Editorial board member http://www.engineeringletters.com/editorial_board_members_p2.html
3. Development of the Information Systems Curriculum at Zayed University, 2002.
4. Development of the Computer Engineering Curriculum at Sharjah University, 1998.
5. Establishment of several labs for the Computer Engineering Department, Sharjah University 1998/1999

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Patents

- U.S. Patent Application, Application # 20090292568, filed on May, 2008
Title: "Adaptive Risk Variables"
- U.S. Patent Application, Application # 20010021294, filed on April 6, 2001
Title: "Tuning of optical dispersion by using a tunable fiber Bragg grating"
- U.S. Patent Application, US Patent # 6,603,890, filed on March 6, 2001

Title: "Compensation for polarization-mode dispersion in multiple wavelength-division multiplexed channels without separate composition for each individual channel"

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