

College of Information Technology

Computer Science

Contributing Faculty Members

Professors:

Prof. Ahmed E. Barbour

Associate Professors:

Dr. Saad Harous, Dr. Tamer F. Rabie, Dr. Nazar Zaki

Assistant Professors:

Dr. Moulay E. Badidi, Dr. Leila Ismail, Dr. Heshan M. Kamel, Dr. Nikolaos Mavridis, Dr. Sanja-Lazarova Molnar

Books

¹ N. Mavridis, "Grounded Situation Models for Situated Conversational Assistants". LAP Lambert Academic Publishing, ISBN 978-3-838312422, 2009.

Chapters in Books

¹ N. Mavridis, W. Kazmi, and P. Toulis, "Friends with Faces: How Social Networks Can Enhance Face Recognition and Vice Versa". Chapter 18 in A. Abraham, A.-E. Hassanien, and V. Snasel (eds.), "Computational Social Networks Analysis: Trends, Tools and Research Advances". Springer, London, UK, 2009, pp. 453 - 482.

N. Zaki, "Protein-Protein Interaction Prediction Using Homology and Inter-domain Linker Region Information". In Advances in Electrical Engineering and Computational Science, Springer, Apr., 2009, pp. 635 - 645.

Journals

- Badidi, E., Salem, M.V., Bouktif, S., and Esmahi, L., "A Web Services based Framework for
1 Uniform Integration of Command-line Bioinformatics Software Tools". International Journal
on Web Services Practices, Vol. 4, Issue No. 1, July, 2009, pp. 36 - 43.
- S. Harous, and A. Elnagar, "Handwritten Character-Based Parallel Tinning Algorithms: A
2 Comparative Study". University of Sharjah Journal of Pure and Applied Sciences, Vol. 6, Issue
No. 1, 2009, pp. 81 - 101.
- N. Zaki, S. Lazarova-Molnar, W. El-Hajj, and P. Campbell, "Protein-Protein Interaction Based
3 on Pairwise Similarity". BMC Bioinformatics, Vol. 10, Issue No. 150, 2009.
<http://www.biomedcentral.com/1471-2105/10/150>

Conferences

- Badidi E., Esmahi L., Serhani M.A., and Ikbali T., "A QoS-Broker Based Framework for
1 Personalized Web Services Provisioning to Mobile Users". International Conference on
Wireless Information Networks and Systems (WINSYS'09), Milan, Italy, Jul., 2009, pp. 147 -
152.
- K. Day, S. Harous, B. Arafeh, and A. Touzene, "Multi-Path Position-Based Routing in
2 Mobile Ad-Hoc Networks". IASTED International Conference on Parallel and Distributed
Computing and Systems, Cambridge, MA, USA, Nov. 2-4, 2009, pp. 321 - 328.
- N. Djenane, A. Benaouda, and S. Harous, "Simulation of a VPN Implementation based on
3 MPLS Protocol, A Case Study: VPN-MPLS for MSN-AT". International Symposium on
Intelligent Systems Techniques for Ad hoc and Wireless Sensor Networks, Dec., 2009, pp.
589 - 593.
- A. Douar, S. Harous, M. Djoudi, and D. Mechta, "An Interactive 3D Distributed Environment
4 For Distance Practical Works". Innovations in Information Technology (IIT'09), Dec., 2009,
pp. 205 - 209.
- L. Ismail, "Convolution on Top of the IBM Cell BE Processor". International Conference on
5 Parallel and Distributed Processing Techniques and Applications (PDPTA'09), Jul., 2009, pp.
507 - 611.
- L. Ismail, and B. Belkhouche, "Full and Autonomic Mobility Management for Mobile
6 Agents". International Conference on Advances in Future Internet (AFIN'09), Jun., 2009, pp.
31 - 38.
- L. Ismail, and M. Al-Shamsi, "Automated Framework for Object Generation". International
7 Conference on Modeling, Simulation and Applied Optimization (ICMSAO'09), Sharjah,
UAE, Jan. 20-22, 2009.
- N. Mavridis, and D. Hanson, "The IbnSina Center: An Augmented Reality Theater with
8 Intelligent Robotic and Virtual Characters". International Symposium on Robot and Human
Interactive Communication (RO-MAN'09), Toyama International Conference Center, Japan,
Sep. 27 - Oct. 2, 2009, pp. 681 - 686.
- N. Mavridis, W. Kazmi, P. Toulis, and C. Ben-Abdelkader, "On the Synergies between
9 Online Social Networking, Face Recognition, and Interactive Robotics". International
Conference on Computational Aspects of Social Networks (CaSoN'09), Fontainebleau, France,
Jun. 24-27, 2009, pp. 48-56.

- N. Mavridis, C. Datta, S. Emami, C. Ben-Abdelkader, A. Tanoto, and T. Rabie, "FaceBots: Social robots utilizing Facebook". International Conference on Human-Robot Interaction (HRI'09), La Jolla, CA, USA, 2009, pp. 195 - 196.
- N. Mavridis, S. Emami, et al., "Facebots: Embodied Conversational Social Robots". TEE PSR, 2009.
- N. Mavridis, A. Al Rashdi, M. Al Ketbi, S. Al Ketbi, and A. Marar, "Exploring Behaviors and Collaborative Mapping through Mindstorms Robots: A Case Study in Applied Social Constructionism at Senior-project Level". Innovations in IT (IIT'09), Dec., 2009, pp. 272 - 277.
- D. Mechta, S. Harous, M. Djoudi, and A. Douar, "Agents Based Modeling of Distant Biology Practical Work". International Conference on Information Technology (ICIT'09), Jun. 3-5, 2009.
- Serhani, A., Badidi, E., and Bouktif, S., "A Framework for Efficient Design and Development of Mobile Applications based Web services ". Annual Research Conference, UAEU, Al Ain, UAE, Apr., 2009.
- Serhani, A., Badidi, E., Benharref, E., and Boulmalef, M. , "Using an Hybrid Model to Evaluate and Improve Performance of Wireless Access to Basic and Composite Web Services". IADIS International Conference Wireless Applications and Computing, Algarve, Portugal, June, 2009, pp. 232 - 235.
- N. Zaki, and P. Campbell, "Domain Linker Region Knowledge Contributes to Protein-protein Interaction Prediction". International Conference on Machine Learning and Computing, Perth, Australia, 2009, pp. 70 - 74.
- N. Zaki, A.A. Aly, and S. Deris, "Electromagnetic Field Emitted By 1800 MHz GSM Mobile Phone Shows Effects on Human Immune Cells Activity". Annual Research Conference, UAEU, Apr., 2009.

Others

-
- N. Mavridis, "Approaches towards Natural Language Communication for Interactive Robots". International Conference on Robotics and Automation (ICRA'09), Kobe, Japan, May 12-17, 2009.

Computer System Engineering

Contributing Faculty Members

Professors:

Prof. Valeriu Beiu

Associate Professors:

Dr. Walid Ibrahim, Dr. Fadi N. Sibai

Assistant Professors:

Dr. Falah Awwad, Dr. Azam Beg, Dr. Mohammad Hayajneh

Edited Books

-
- A. Schmid, S. Goel, W. Wang, V. Beiu, and S. Carrara (eds.), "NanoNet -- Proceedings of the 1 International ICST Conference Nano-Net 2009". Springer Verlag, Berlin, Germany, LNICST 20, ISBN 978-3-642-04849-4, Oct., 2009, pp. 1 - 286.

Journals

-
- 1 A. Asaduzzaman, F. Sibai, and M. Rani, "Impact of Level-2 Cache Sharing on the Performance and Power Requirements of Homogeneous Multicore Embedded Systems". Microprocessors and Microsystems, Embedded Hardware Design, Vol. 33, Issue No. 5-6, 2009, pp. 388 - 397.
- 2 A. Beg, and W. Ibrahim, "PerfPred: A Web-based Tool for Exploring Computer Architecture Design Space". Journal of Computer Applications in Engineering Education (Wiley), Vol. 17, Issue No. 3, Jan., 2009, pp. 305 - 313.
- 3 A. Beg, and P.W.C. Prasad, "Prediction of Area and Length Complexity Measures for Binary Decision Diagrams". Expert Systems with Applications (Elsevier), Vol. 37, Issue No. 4, 2009, pp. 2864 - 2873.
- 4 V. Beiu, B.A.M. Madappuram, P.M. Kelly, and L.J. McDaid, "On Two-layer Brain-inspired Hierarchical Topologies – A Rent's Rule Approach". LNCS Transactions on High-Performance Embedded Architectures and Compilers (Springer), Vol. 4, Issue No. 4, Nov., 2009, pp. 1 - 22.
- 5 M. Hayajneh, N. Abu Ali, and I. Khalil, "Uplink and Downlink Scheduling for Point-to-Multipoint WiMax Networks". Wiley's Wireless Communication and Mobile Computing Journal, Vol. 9, Issue No. 9, Sep., 2009, pp. 1231 - 1242.
- 6 H. Kidwai, F. Sibai, and T. Rabie, "Performance and Scalability Analysis of Image Processing Applications on the IBM Cell BE Simulator". Journal of Communication and Computer, Vol. 6, Issue No. 3, Mar., 2009, <http://www.informatics.org.cn/it200903.htm>
- 7 H. Kidwai, F. Sibai, and T. Rabie, "Parallelization and Performance Evaluation of an Edge Detection Algorithm on a Streaming Multi-Core Engine". Journal of Information Technology Research (IGI Global), Vol. 2, Issue No. 4, Oct., 2009, pp. 81 - 91.
- 8 H. Kidwai, T. Rabie, and F. Sibai, "Parallel Video Processing Performance Evaluation on the IBM Cell Broadband Engine". International Journal of Computer Science and Applications (Technomathematics Research Foundation), Vol. 6, Issue No. 1, 2009, pp. 13 - 25.
- 9 P.W.C. Prasad, and A. Beg, "Investigating Data Preprocessing Methods for Circuit Complexity Models". Expert Systems with Applications (Elsevier), Vol. 36, Issue No. 1, Jan.,

2009, pp. 519 - 526.

F. Sibai, and H.K. Kidwai, "Parallel Simulation of Oil Reservoirs on a Multi-Core Stream
10 Computer". Transactions on Computational Science III (LNCS 5300, Springer, Berlin,
Germany), Vol. 3, Issue No. 3, 2009, pp. 82 - 98.

M. Sawan, S. Hashemi, M. Sehil, F. Awwad, M. Hajj-Hassan, and A. Khouas, "Multicoils-
11 based Inductive Links Dedicated to Power up Implantable Medical Devices: Modeling,
Design and Experimental Results". Biomedical Microdevices (Springer), Vol. 11, Issue No. 5,
Oct., 2009, pp. 1059 - 1070.

T. Taibi, W. Ibrahim, and M. Hayajneh, "Effect of Question Type on the Performance of
12 Information Technology Students". International Journal of Teaching and Case Studies
(Inderscience), Vol. 2, Issue No. 1, 2009, pp. 76 - 91.

Conferences

A. Asaduzzaman, and F.N. Sibai, "Performance and Energy Consumption Optimization by
1 Tuning Level-2 Cache Attributes for Real-Time Signal Processing Systems".
SouthEastCon'09, Mar., 2009, pp. 398 - 403.

A. Asaduzzaman, I. Mahgoub, and F.N. Sibai, "Impact of L1 Entire Locking and L2 Way
2 Locking on the Performance, Power Consumption, and Predictability of Multicore Real-Time
Systems". International Conference on Computer Systems and Applications (AICCSA'09),
Rabat, Morocco, May, 2009, pp. 705 - 711.

A. Beg, and W. Ibrahim, "Relating Reliability to Circuit Topology". Joint IEEE North-East
3 Workshop on Circuits and Systems and TAISA Conference (NEWCAS- TAISA'09),
Toulouse, France, Jun., 2009, art. 5290421(4 pp.).

V. Beiu, W. Ibrahim, and R.Z. Makki, "On Wires Driven by a Few Electrons". Joint IEEE
4 North-East Workshop on Circuits and Systems and TAISA Conference (NEWCAS-
TAISA'09), Toulouse, France, Jun. 28 - Jul. 1, 2009, art. 5290455(4 pp.).

V. Beiu, and W. Ibrahim, "On CMOS Circuit Reliability from the MOSFETs and the Input
5 Vectors". Workshop on Dependable and Secure Nanocomputing (WDSN'09), part of the
IEEE/IFIP International Conference on Dependable Systems and Networks (DSN'09),
Estoril/Lisbon, Portugal, Jun. 29 - Jul. 2, 2009, in press.

V. Beiu, B.A.M. Madappuram, P.M. Kelly, and L.J. McDaid, "On Brain-inspired Hierarchical
6 Network Topologies". International Conference on Nanotechnology (IEEE-NANO'09),
Genoa, Italy, Jul. 26-30, 2009, pp. 202 - 205.

V. Beiu, W. Ibrahim, and R.Z. Makki, "On Wires at Low Electron Densities". International
7 Conference on Nanotechnology (IEEE-NANO'09), Genoa, Italy, Jul. 26-30, 2009, pp. 703 -
706.

V. Beiu, B.A.M. Madappuram, P.M. Kelly, and L.J. McDaid, "On Two-layer Hierarchical
8 Networks: How Does the Brain Do This?" (Invited). International ICST Conference on Nano-
Networks (Nano-Net'09), Luzern, Switzerland, Oct. 18-20, 2009, pp. 231 - 241.

V. Beiu, W. Ibrahim, and R.Z. Makki, "On Wires Holding a Handful of Electrons" (Invited).
9 International ICST Conference on Nano-Networks (Nano-Net'09), Luzern, Switzerland,
October 18-20, 2009, pp. 259 - 269.

- S. Elmansori, O.A. Mohamed, and F. Awwad, "Static Slicing-Based Pre-Reduction
10 Technique for MDG Model-Checker". International Conference on Innovations in
Information Technology (IIT'09), Al Ain, UAE, Dec. 15-17, 2009, pp. 299 - 303.
- F. Fereydouni-forouzandeh, O.A. Mohamed, M. Sawan, and F. Awwad, "TBCD-TDM: Novel
11 Ultra-Low Energy Protocol for Implantable Wireless Body Sensor Networks". GlobeCom'09
(Ad Hoc, Sensor and Mesh Networking Symposium), Nov., 2009, in press.
- M. Hayajneh, I. Khalil, and Y. Gadallah, "An OFDMA-Based MAC Protocol for Under
12 Water Acoustic Wireless Sensor Networks". IWCMC'09, Jun., 2009, pp. 810 - 814.
- M. Hayajneh, I. Khalil, and M. Awad, "Non-Cooperative Uplink Power Control Game for
13 CDMA Wireless Communications Systems". ISCC'09, 2009, pp. 587 - 592.
- W. Ibrahim, V. Beiu, and H. Amer, "Why Should We Care About Input Vectors?". Joint
14 IEEE North-East Workshop on Circuits and Systems and TAISA Conference (NEWCAS-
TAISA'09), Toulouse, France, Jun. 28 - Jul. 1, 2009, art. 5290448(4 pp.).
- W. Ibrahim, and V. Beiu, "How Much Input Vectors Affect nano-Circuit's Reliability
15 Estimates". International Conference on Nanotechnology (IEEE-NANO'09), Genoa, Italy,
Jul. 26-30, 2009, pp. 699 - 702.
- W. Ibrahim, and V. Beiu, "A Bayesian-based EDA Tool for nano-Circuits Reliability
16 Calculations" (Invited). International ICST Conference on Nano-Networks (Nano-Net'09),
Luzern, Switzerland, Oct. 18-20, 2009, pp. 276 - 284.
- W. Ibrahim, and V. Beiu, "Reliability of NAND-2 CMOS Gates from Threshold Voltage
17 Variations". International Conference on Innovations in Information Technology (IIT'09), Al
Ain, UAE, Dec. 15-17, 2009, in press.
- M. Jizzini, R. Zantout, and F.N. Sibai, "Faster Digital Image Processing Using FPGA".
18 Annual Research Conference, UAEU, Apr., 2009.
- P.M. Kelly, F. Tuffy, V. Beiu, and L.J. McDaid, "Networks Using a Time Multiplexed
19 Architecture based on Quantum Devices" (Invited). International ICST Conference on Nano-
Networks (Nano-Net'09), Luzern, Switzerland, Oct. 18-20, 2009, pp. 242 - 250.
- I. Khalil, M. Hayajneh, and M. Awad, "SVNM:Secure Verification of Neighborhood
20 Membership in Static Multi-hop Wireless Networks". ISCC'09, Jul., 2009, pp. 368 - 373.
- H. Kidwai, F.N. Sibai, and T. Rabie, "Simulating Image Resizing on the IBM Cell
21 Simulator". International Conference on Modeling, Simulation, and Applied Optimization
(ICMSAO'09), Sharjah, UAE, Jan. 20-22, 2009.
- H. Kidwai, F.N. Sibai, and T. Rabie, "Video Processing using Optical Flow Estimation on the
22 Cell BE Simulator". International Conference on Modeling, Simulation, and Applied
Optimization (ICMSAO'09), Sharjah, UAE, Jan. 20-22, 2009.
- H. Kidwai, F. Sibai, and T. Rabie, "Parallel Image Processing on the STI Cell". International
23 Conference on Computer Systems and Applications (AICCSA'09), Rabat, Morocco, May 10-
13, 2009, pp. 849 - 852.
- Z. Osman, L. Hamandi, R. Zantout, and F.N. Sibai, "Arabic Optical Character Recognition".
24 Annual Research Conference, UAEU, Apr., 2009.
- T. Rabie, H. Kidwai, and F.N. Sibai, "Parallel Video Surveillance on the Multi-Core Cell
25 Broadband Engine". International Joint Conference on Computational Sciences and
Optimization (CSO'09), 2009, Vol. 1, pp. 85 - 89.

F.N. Sibai, M. Ma, and D.A. Lill, "Teaching Page Replacement Algorithms with a Java-Based VM Simulator". Western Canadian Conference on Computing Education, 2009, pp. 22 - 28.

F.N. Sibai, "Simulating Thread Schedule Runs in Multi-Core Processors". International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO'09), Sharjah, UAE, Jan. 20-22, 2009.

F.N. Sibai, "Resource Sharing in Networks-on-Chip of Large Many-core Embedded Systems". International Symposium on Embedded Multicore Systems-on-Chip (MCSoc'09), part of the International Conference on Parallel Processing Workshops, (ICPPW'09), Vienna, Austria, Sep. 22-25, 2009, pp. 513 - 519.

F.N. Sibai, and H.K. Kidwai, "Parallelization and Performance Analysis of an IMPES-based Oil-Water Reservoir Simulator". International Conference on High Performance Computing and Communications (HPC'09), Seoul, Korea, Jun. 25-27, 2009, pp. 488 - 493.

E-Commerce

Contributing Faculty Members

Professors:

Associate Professors:

Dr. Nabeel Al-Qirim

Assistant Professors:

Dr. Said Elnaffar, Dr. Mohamed Adel Serhani

Journals

A. Benharref, R. Dssouli, M.A. Serhani, and R. Glitho, "Efficient Traces' Collection Mechanisms for Passive Testing of Web Services". Information and Software Technology Journal, Vol. 51, Issue No. 2, 2009, pp. 362 - 374.

Al-Qirim, N., "Electronic Government: Assimilation Gaps and Implications". Journal of Information Technology Research, Vol. 4, Issue No. 2, 2009, pp. 53 - 66.

M. Qiao, F. Khendek, M.A. Serhani, R. Dssouli, and R. Glitho, "International Journal of Web Services Practices". Web Services Research Foundation, Vol. 4, Issue No. 1, 2009, pp. 18 - 27.

S. Elnaffar, and P. Martin, "The Psychic-Skeptic Prediction Framework for Effective Monitoring of DBMS Workloads". Journal of Data and Knowledge Engineering (Elsevier),

Conferences

- P.T.M. Bao, D.T. Trung, N.T. Loc, and S. Elnaffar, "ECG Dipole Source Localization by Genetic Algorithm". International Conference on Knowledge, Information and Creativity Support Systems (KICSS'09), Nov., 2009.
- Al-Qirim, N., "Using Discussion Forums in Blackboard to Facilitate Electronic Government Course Delivery". International Conference on Information Resources Management (Conf-IRM'09), Al Ain, UAE, May 21-23, 2009, Paper 12 (pp. 1 - 9).
- Al-Qirim, N., "Global Mobile Government Issues and Implications". International Decision Sciences Institute Conference (IDSI'09), Nancy, France, Jun. 24-27, 2009, pp. 275 - 288.
- Al-Qirim, N., "Determinants of Mobile Government Adoption: A Theoretical Framework". International Decision Sciences Institute Conference (IDSI'09), Nancy, France, Jun. 24-27, 2009, pp. 355 - 368.
- Al-Qirim, N., "Global mobile government issues and implications ". Annual Research Conference, UAEU, Al Ain, UAE, Apr. 21-23, 2009.
- Badidi, E., Esmahi, L., Serhani, M.A., and Ikbali, T., "A QoS-Broker Based Framework for Personalized Web Services Provisioning to Mobile Users". International Conference on Wireless Information Networks and Systems (WINSYS'09), Milan, Italy, July, 2009, pp. 147 - 152.
- S. Elnaffar, and K. Hamdan, "A Formal Method for Selecting a Project Manager Based on Leadership Characteristics". International Conference on Information Resources Management (Conf-IRM'09) 2009, May, 2009.
- Serhani, M.A, Badidi, E., and Bouktif, S., "A Framework for Efficient Design and Development of Mobile Applications based Web services". Annual Research Conference, Al-Ain, UAE, Apr., 2009.
- Serhani, M.A., Badidi, M.A, Benharref, E., and Boulmalef, M., "Using an Hybrid Model to Evaluate and Improve Performance of Wireless Access to Basic and Composite Web Services". IADIS International Conference Wireless Applications and Computing, Algarve, Portugal, Jun., 2009, pp. 232 - 235.
- Serhani, M.A., Benharref, A., Dssouli, R., and Mizouni, R., "Toward an Efficient Framework for Designing, Developing, and Using Secure Mobile Applications". International Conference on Software and Data Engineering, Apr., 2009, pp. 122 - 128.
- Z. Maamar, L.K. Wives, Y. Badr, and S. Elnaffar, "Even Web Services Can Socialize: A New Service-Oriented Social Networking Model". International Conference on Intelligent Networking and Collaborative Systems, Nov., 2009.
- N. Zaki, A.A. Aly, and S.B. Deris, "Electromagnetic Field Emitted by 1800 MHz GSM Mobile Phone Shows Effects on Human Immune Cells Activity". Annual Research Conference, UAEU, Al Ain, Apr., 2009.
- S. Elnaffar, and N.T. Loc, "A Dynamic Grid Scheduler with a Resource Selection Policy" (SITIS'06 Revised Selected Papers). Springer-Verlag, Berlin/Heidelberg, Germany, LNCS 4879, ISBN 978-3-642-01349-2, Apr., 2009, pp. 190 - 200.

Others

Al-Qirim, N., Lakas, A., and Sallabi, F., Guest Editors: "Special Issues Best Papers from the
1 2007 International Conference on Innovation in Information Technology (IIT'07)".
International Journal of Business Data Communications and Networking, 2009.

Enterprise Systems

Contributing Faculty Members

Professors:

Associate Professors:

Dr. Yacine Atif, Dr. Hazem El Khatib (on leave)

Assistant Professors:

Dr. Shayma Alkobaisi (on leave), Dr. Jameela Al-Jaroodi, Dr. Piers Campbell, Dr. George Ditsa,
Dr. Ahmad Daud Jaffar

Books

Ahmed F., L.F. Capretz, and P.R.J. Campbell, "Software Product Lines: A Process Assessment
1 Methodology - A Practitioner's Approach". VDM-Verlag, Berlin, Germany, ISBN 978-3-639-
11908-4, 2009.

Alkobaisi, S., and W.D. Bae, "Continuously Changing Data in Spatiotemporal Databases:
2 Managing Uncertainty of Moving Objects". VDM-Verlag, ISBN 978-3-639-18191-3, Aug.,
2009.

Bae, W.D., and S. Alkobaisi, "Online Query Processing in Geographic Information Systems:
3 Statistical and Probabilistic Approaches". VDM-Verlag, ISBN 978-3-639-18283-5, Aug.,
2009.

Journals

1 Al-Jaroodi, J., and N. Mohamed, "A Personalized Stock Investors Alert System". Journal of
Software (Academy Publisher), Vol. 4, Issue No. 8, Oct., 2009, pp. 875 - 882.

2 Bae, W.D., S. Alkobaisi, and S.T. Leutenegger, "IRSJ: Incremental Refining Spatial Joins for

- Interactive Queries in GIS". *GeoInformatica*, Vol. 13, Issue No. 4, Aug., 2009, pp. 483 - 514.
- 3 Benlamri, R., Y. Atif, and J. Berri, , "Personalized Time Dependent Learning". *Journal of Learning Technology (InderScience Publishers)*, Vol. 4, Issue No. 1, 2009, pp. 24 - 52.
- Ditsa, G., "Trends and Challenges Facing Developing World in Adoption and Use of ICTs: A View Towards Bridging the Digital Divide". *International Journal of Global Business*, Vol. 2, Issue No. 1, Jun., 2009, pp. 78 - 100.
- Mohamed, N., J. Al-Jaroodi, and I. Jawhar, "A Review of Middleware for Networked Robots". *International Journal of Computer Science and Network Security*, Vol. 9, Issue No. 5, May, 2009, pp. 139 - 148.
- 5 Zaki, N., S. Lazarova-Molnar, W. El-Hajj, and P.R.J. Campbell, "Protein-Protein Interaction Based on Pairwise Similarity". *BMC Bioinformatics*, Vol. 10, Issue No. 150, May, 2009. Available at <http://www.biomedcentral.com/1471-2105/10/150>

Conferences

-
- Ahmed, F., P.R.J. Campbell, A. Jaffar, and L.F. Capretz, "Managing Support Requests in Open Source Software Project: The Role of Online Forums". *International Conference on Computer Science and Information Technology*, China, Aug., 2009, pp. 590 - 594.
- 1 Ahmed, F., P.R.J. Campbell, and A. Jaffar, "Managing Dynamic Requirements in Open Source Software: The Role of Online Forum ". *International Conference on Open Source Software Systems (QACOS-OSSPL'09)*, Skövde, Sweden, June, 2009.
- 2 Ahmed, F., P.R.J. Campbell, A. Jaffar, and L.F. Capretz, "Defects in Open Source Software". *Conference on Software and Data Engineering*, Apr., 2009, pp. 174 - 179.
- 3 Ahmed, F., P.R.J. Campbell, L.F. Capretz, and A. Jaffar, "Defects in Open Source Software: The Role of Online Forums". *International Conference on Software and Data Engineering*, Italy, 2009, pp. 174 - 178.
- 4 Ahmed, F., P.R.J. Campbell, and M.S. Laghari, "Cognitive Factors in Software Product Line Engineering". *International Conference on Computer Modeling and Simulation (UKSIM'09)*, Mar., 2009, pp. 352 - 355.
- 5 Al-Jaroodi, J., and N. Mohamed, "A Flexible Notification System for Stocks Investors". *International Conference on Information Technology: New Generations (ITNG'09)*, Las Vegas, NV, USA, Apr., 2009, pp. 952 - 957.
- 6 Al-Jaroodi, J., and N. Mohamed, "Analysis of Web Alert Models". *International Conference on Network-Based Information Systems*, Indianapolis, IN, USA, Aug., 2009, pp. 398 - 403.
- 7 Al-Jaroodi, J., A. Al-Dhaheri, F. Al-Abdouli, and N. Mohamed, "A Survey of Security Middleware for Pervasive and Ubiquitous Systems". *International Symposium on Emerging Ubiquitous and Pervasive Systems (EUPS'09)*, Indianapolis, IN, USA, Aug., 2009, pp. 188 - 193.
- 8 Al-Jaroodi, J., J. Aziz, and N. Mohamed, "Middleware for RFID Systems: An Overview". *International Workshop on Middleware Engineering (ME'09) in conjunction with the Annual IEEE International Computer Software and Applications Conference (COMPSAC'09)*, Seattle, WA, USA, Jul., 2009, pp. 154 - 159.
- 9 Beg, A., F. Ahmed, and P.R.J. Campbell, "Software and Hardware-Based Arabic Text
- 10

Recognition – A Review and Potential Applications". International Conference on Computer Modeling and Simulation (CSSim'09), Brno, Czech Republic, Sep., 2009, in press.

- Ditsa, G., and S. Alwahaishi, "The Impact of Culture on the Adoption and Use of IT in the
11 UAE: A Study Towards Bridging the Digital Divide between the UAE and the Developed Countries". International Business Conference, Dubai, UAE, May, 2009.

- Ditsa, G., "Applying Triandis' Theoretical Framework in an Explanatory User Behavior
12 Testing in Information Systems Use: A Research Design". Annual International Business Conference, Detroit, MI, USA, Aug., 2009.

- Hope, B.H., P.R.J. Campbell, and F. Ahmed, "A Services Science Major in a Bachelor of
13 Science (IT) Program: The Case of UAE University". Conference on Information Resources Management (Conf-IRM'09), Dubai, UAE, May, 2009.

- Mohamed, N., and J. Al-Jaroodi, "A Middleware Architecture for Web Information Reuse".
14 International Conference on Network-Based Information Systems, Indianapolis, IN, USA, Aug., 2009, pp. 404 - 409.

- Mohamed, N., J. Al-Jaroodi, and I. Jawhar, "Internet Information Retrieval for Enabling
15 Student Projects". International Conference on Information Technology: New Generations (ITNG'09), Las Vegas, NV, USA, Apr., 2009, pp. 987 - 992.

- Zaki, N., and P.R.J. Campbell, "Domain Linker Region Knowledge Contributes to Protein-
16 protein Interaction Prediction". International Conference on Machine Learning and Computing, Jul., 2009, pp. 70 - 74.

Information Security

Contributing Faculty Members

Professors:

Associate Professors:

Dr. Alaa Eldin Aly (on leave), Dr. Zouheir Trabelsi

Assistant Professors:

Dr. Ezedin Barka, Dr. Wassim El-Hajj, Dr. Issa Khalil, Dr. Emad Eldin Mohamed

Chapters in Books

-
- ¹ E.E. Mohamed, and H. Abdel-Wahab, "Collusion Resistant Message Authentication in Overlay Multicast Communication". In M.L. Gavrilova, C.J. Tan, and E.D. Moreno (eds.),

"Transactions on Computational Science IV", Springer, LNCS 5430, ISBN 978-3-642-01003-3, Mar., 2009, pp. 53 - 67.

Journals

- 1 F. Aloul, S. Zahidi, and W. El-Hajj, "Multi Factor Authentication Using Mobile Phones". International Journal of Mathematics and Computer Science, Vol. 4, Issue No. 2, 2009, pp. 65 - 80.
- 2 W. El-Hajj, A. Al-Fuqaha, M. Guizani, and H. Chen, "On Efficient Network Planning and Routing in Large Scale Manets". IEEE Transactions on Vehicular Technology, Vol. 58, Issue No. 7, Sep. 2009, pp. 3796 - 3801.
- 3 W. El-Hajj, H.M. Hajj, E. Barka, Z. Dawy, O. El Hmaissy, D. Ghaddar, and Y. Aitour, "Optimal WiMax Planning with Security Considerations". Security and Communication Networks (Special Issue on WiMax Security and Applications), 2009, Vol. 2, Issue No. 5, pp. 401 - 412.
- 4 W. El-Hajj and H. Alazemi, "Optimal Frequency Assignment for IEEE 802.11 Wireless Networks". Wireless Communications and Mobile Computing, Vol. 9, Issue No. 1, Jan., 2009, pp. 131 - 141.
- 5 W. El-Hajj, H.M. Hajj, E. Barka, Z. Dawy, O. El Hmaissy, D. Ghaddar, and Y. Aitour, "Optimal WiMax Planning with Security Considerations". Security and Communication Networks (Special Issue on WiMax Security), Vol. 2, Issue No. 5, 2009, pp. 401 - 412.
- 6 I. Khalil, S. Bagchi, C.N. Rotaru, and N.B. Shroff, "UNMASK: Utilizing Neighbor Monitoring for Attack Mitigation in Multihop Wireless Sensor Networks". Elsevier Ad Hoc Networks Journal, Vol. 8, Issue No. 8, 2010, pp. 148 - 164.
- 7 E.E. Mohamed, H. Abdel-Wahab, "Collusion Resistant Message Authentication in Overlay Multicast Communication". Transactions on Computational Science IV, Springer, Vol. IV, 2009, pp. 53 - 67.
- 8 R.K. Panta, S. Bagchi, and I. Khalil, "Efficient Wireless Reprogramming through Reduced Bandwidth Usage and Opportunistic Sleeping". Elsevier Ad Hoc Networks Journal, Vol. 7, Issue No. 1, 2009, pp. 42 - 62.
- 9 N. Zaki, S. Lazarova-Molnar, W. El-Hajj, and P. Campbell, "Protein-protein Interaction based on Pairwise Similarity". BMC Bioinformatics, Vol. 10, Issue No. 150, 2009.

Conferences

- 1 F. Aloul, S. Zahidi, and W. El-Hajj, "Two Factor Authentication Using Mobile Phones". International Conference on Computer Systems and Applications (AICCSA'09), Rabat, Morocco, May 10-13, 2009, pp. 641 - 644.
- 2 E. Barka, and E.E. Mohamed, "Securing Hierarchical Multicast Communications using Roles". International Wireless Communications and Mobile Computing Conference (IWCMC'09), Jun., 2009, pp. 101 - 105.
- 3 W. El-Hajj, H. Hajj, and Z. Trabelsi, "On Fault Tolerant Ad Hoc Network Design". International Wireless Communications and Mobile Computing Conference (IWCMC'09),

Leipzig, Germany, Jun., 2009, pp. 201 - 206.

- 4 L. Frikha, Z. Trabelsi, S. Tabbane, "Simulation, Optimization and Integration of Covert Channels, Intrusion Detection and Packet Filtering Systems". IEEE Global Information Infrastructure Symposium (GIIS'09), Hammamet Tunisia, Jun. 22-26, 2009.
- 5 S. Hammouda, Z. Trabelsi, "An Enhanced Secure ARP Protocol and LAN Switch for Preventing ARP based Attacks". The 5th International Wireless Communications and Mobile Computing Conference (IWCMC'09), Jun., 2009, pp. 942 - 946.
- 6 M. Hayajneh, I. Khalil, and Y. Gadallah, "An OFDMA-based MAC Protocol for Under Water Acoustic Wireless Sensor Networks". International Conference On Communications and Mobile Computing (IWCMC'09), Leipzig, Germany, 2009, pp. 810 - 814.
- 7 I. Khalil, "Using Secure Verification of Neighborhood Membership to Defend Misrouting in Multihop Wireless Networks". Annual Research Conference, UAEU, Al Ain, UAE, 2009.
- 8 I. Khalil, M. Hayajneh, and M. Awad, "SVNM: Secure Verification of Neighborhood Membership in Static Multi-hop Wireless Networks". International Symposium on Computers and Communications (ISCC'09), 2009, pp. 368 - 373.
- 9 I. Khalil, "MPC: Mitigating Power Control Attacks in Wireless Ad Hoc Networks". Global Communications Conference (GLOBECOM'09), 2009, in press.
- 10 Z. Trabelsi, and W. El-Hajj, "ARP Spoofing: A Comparative Study for Education Purposes". Information Security Curriculum Development Conference, Kennesaw GA, USA., Sep., 2009.

Network Engineering

Contributing Faculty Members

Professors:

Prof. Eyad H. Abed, Prof. Liren Zhang

Associate Professors:

Dr. Abderrahmane Lakas, Dr. Hesham El-Sayed, Dr. Nader Mohamed, Dr. Farag Sallabi, Dr. Khaled Shuaib

Assistant Professors:

Dr. Najah Abu Ali, Dr. Yasser Gadallah, Dr. Imad Jawhar

Journals

-
- 1 N. Abu Ali, P. Dhrona, and H. Hassanein, "A Performance Study of Scheduling Algorithms

- in Point-to-Multipoint WiMAX Networks". Computer Communication (Elsevier), Vol. 32, Issue No. 3, Feb., 2009, pp. 511 - 521.
- 2 J. Al-Jaroodi, and N. Mohamed, "A Personalized Stock Investors Alert System". The Journal of Software (Finland), Vol. 4, Issue No. 8, Oct., 2009, pp. 875 - 882.
 - 3 B. Al-Manthari , H. Hassanein, N. Abu Ali, and N. Nasser, "Fair Class-based Downlink Scheduling with Revenue Consideration in Next Generation Broadband Wireless Access Systems". IEEE Transactions on Mobile Computing, Vol. 8, Issue No. 6, June, 2009, pp. 721 - 734.
 - 4 G.A. Al-Mashaqbeh, J.N. Al-Karaki, S.M. Bataineh, "CLEAR: A Cross-Layer Enhanced and Adaptive Routing Framework for Wireless Mesh Networks". Wireless Personal Communications, Vol. 51, Issue No. 3, Nov., 2009, pp. 449 - 482.
 - 5 W.A. Hashlamoun, M.A. Hassouneh, and E.H. Abed, "New Results on Modal Participation Factors: Revealing a Previously Unknown Dichotomy". IEEE Transactions on Automatic Control, Vol. 54, Issue No. 7, Jul., 2009, pp. 1439 - 1449.
 - 6 M. Hayajneh, N. Abu Ali, and I. Khalil, "Uplink and downlink scheduling for point to multipoint WiMAX Networks". Wiley Wireless Communications and Mobile Computing, Vol. 9, Issue No. 9, Sep., 2009, pp.1231 - 1231.
 - 7 W. Ibrahim, H. El-Sayed, A. Elchouemi, and H. Amer, "An Adaptive Heuristic Algorithm for VLSI Test Vector Selection". European Journal of Operational Research (Elsevier), Vol. 199, Issue No. 3, Dec., 2009, pp. 630 - 639.
 - 8 I. Jawhar, and J. Wu, "Resource Allocation for Real-Time and Multimedia Communication in TDMA-Based Wireless Networks". International Journal of Ad Hoc and Ubiquitous Computing (Inderscience Publishers), Vol. 4, Issue No. 5, 2009, pp. 304 - 319.
 - 9 I. Jawhar, N. Mohamed, K. Shuaib, and N. Kesserwan, "An Efficient Framework and Networking Protocol for Linear Wireless Sensor Networks". The Ad Hoc & Sensor Wireless Networks Journal (Old City Publishing), Vol. 7, Issue No. 1-2, 2009, pp. 3 - 21.
 - 10 N. Mohamed, J. Al-Jaroodi, and I. Jawhar, "A Review of Middleware for Networked Robots". International Journal of Computer Science and Network Security, Vol. 9, Issue No. 5, May, 2009, pp. 139 - 148.
 - 11 N. Mohamed, "Towards Self-configuration in Multiple Network Interfaces Communications". International Transactions on Systems Science and Applications, Vol. 5, Issue No. 4, Dec., 2009, pp. 331 - 336.
 - 12 F. Siddiqui, S. Zeadally, H. El-Sayed and N. Chilamkurti, "A Dynamic Network Discovery and Selection Method for Heterogeneous Wireless Networks". International Journal of Internet Protocol Technology (Inderscience Publishers), Vol. 4, Issue No. 2, Jul., 2009, pp. 99 - 114.
 - 13 H. Zhang, G. Bi, and L. Zhang, "Adaptive Subcarrier Allocation and bit Loading for Voice/Data Transmission in Multiuser OFDM System". Journal of Wireless Communications and Mobile Computing, Vol. 9, Issue No. 7, Jul., 2009, pp. 894 - 908.

Conferences

-
- 1 E.H. Abed, M.A. Hassouneh, and W.A. Hashlamoun, "Modal participation factors revisited:

- One definition replaced by two". American Control Conference, Jun., 2009, pp. 1140 - 1145.
- Q. Albluwi, N. Abu Ali, and H. Hassanein, "A Dynamic Frame Partitioning Scheme for
2 IEEE802.16 Mesh and Multi-hop Relay Networks". International Conference on
Communications (ICC'09), Dresden, Germany, Jun. 14-18, 2009, in press.
- J. Al-Jaroodi, and N. Mohamed, "A Flexible Notification System for Stocks Investors".
3 International Conference on Information Technology: New Generations (ITNG'09), Apr.,
2009, pp. 952 - 957.
- J. Al-Jaroodi, N. Mohamed, and I. Jawhar, "Middleware for Ad Hoc Networks - A Case for
4 Collaborative Robotics". Annual Research Conference, UAEU, Al Ain, UAE, 2009.
- J. Al-Jaroodi, J. Aziz, and N. Mohamed, "Middleware for RFID Systems: An Overview".
5 International Workshop on Middleware Engineering (ME'09) in conjunction with the Annual
IEEE International Computer Software and Applications Conference (COMPSAC'09), Jul.,
2009, pp. 154 - 159.
- J. Al-Jaroodi, and N. Mohamed, "Analysis of Web Alert Models". International Conference
6 on Network-Based Information Systems, Aug., 2009, pp. 398 - 403.
- J. Al-Jaroodi, A. Al-Dhaheri, F. Al-Abdouli, and N. Mohamed, "A Survey of Security
7 Middleware for Pervasive and Ubiquitous Systems". International Symposium on Emerging
Ubiquitous and Pervasive Systems (EUPS'09), Aug., 2009, pp. 188 - 193.
- A. Bourawy, N. Abu Ali, and H. Hassanein, "A Selectivity Function Scheduler for IEEE
8 802.11e Networks". International Symposium on Computers and Communications
(ISCC'09), Jul., 2009, pp. 950 - 955.
- Y. Gadallah, and I. Taleb, "Network Effects on the Functionality of Voice-Controlled
9 Systems and Applications". International Conference on Innovations in Information
Technology (IIT'09), Al Ain, UAE, Dec., 2009, in press.
- Y. Gadallah, and M. Hayajneh, "A Throughput Analysis Model of 802.16 Based Point-to-
10 MultiPoint Networks". Annual Research Conference, UAEU, Al Ain, UAE, Apr., 2009.
- M. Hayajneh, I. Khalil, and Y. Gadallah, "An OFDMA-Based MAC Protocol for Under
11 Water Acoustic Wireless Sensor Networks". International Wireless Communications and
Mobile Computing Conference, Jun., 2009, pp. 810 - 814.
- M. Hayajneh, and Y. Gadallah, "Throughput Analysis of WiMAX Based Wireless
12 Networks". Annual Research Conference, UAEU, Al Ain, UAE, Apr., 2009.
- I. Jawhar, "A Flexible Object-Oriented Design of an Event Driven Wireless Network
13 Simulator". Annual Wireless Telecommunications Symposium (WTS'09), Prague, Czech
Republic, Apr., 2009, pp. 80 - 86.
- I. Jawhar, "A Simplified Framework for Protocol Simulation in Wireless Networks". Wireless
14 Communication Society Vehicular Technology Information Theory and Aerospace and
Electronic Systems Technology (Wireless VITAE'09), Aalborg, Denmark, May, 2009, pp.
808 - 812.
- I. Jawhar, and N. Mohamed, "A Hierarchical and Topological Classification of Linear Sensor
15 Networks". Annual Wireless Telecommunications Symposium (WTS'09), Prague, Czech
Republic, Apr., 2009, pp. 72 - 79.
- I. Jawhar, and N. Mohamed, "Applications and Models of Linear Wireless Sensor Networks".
16 Wireless Communication Society Vehicular Technology Information Theory and Aerospace

- and Electronic Systems Technology (Wireless VITAE'09), Aalborg, Denmark, May, 2009, pp. 308 -312.
- 17 I. Jawhar, N. Mohamed, and J. Al-Jaroodi, "Issues and Challenges in the Design and Development of Linear Sensor Networks". Annual Research Conference, UAEU, Al Ain, UAE, 2009.
- 18 A. Lakas, and M. Cheqfah, "Detection and Dissipation of Road Traffic Congestion Using Vehicular Communication". Mediterranean Microwave Symposium, Tangiers, Morocco, Nov., 2009.
- 19 N. Mohamed, and J. Al-Jaroodi, "A Middleware Architecture for Web Information Reuse". International Conference on Network-Based Information Systems (NBIS'09), Indianapolis, IN, USA, Aug. 19-21, 2009, pp. 404 - 409.
- 20 N. Mohamed, I. Jawhar, and J. Al-Jaroodi, "A Generic Notification Framework". Annual Research Conference, UAEU, Al Ain, UAE, 2009.
- 21 N. Mohamed, J. Al-Jaroodi, and I. Jawhar, "Internet Information Retrieval for Enabling Student Projects". International Conference on Information Technology: New Generations (ITNG'09), Las Vegas, NV, USA, Apr., 2009, pp. 987 - 992.
- 22 N. Mohamed, J. Al-Jaroodi, and I. Jawhar, "Enabling Real Information-Based Students Projects". International Conference on Information Technology in Education and Training Conference (IT@EDU2008), Ho Chi Minh City, Vietnam, Dec. 15-17, 2009.
- 23 F. Sallabi, and K. Shuaib, "Downlink Call Admission Control Algorithm with Look-Ahead Calls for 3GPP LTE Mobile Networks". International Wireless Communications & Mobile Computing Conference (IWCMC'09), Leipzig, Germany, Jun., 2009, pp. 712 - 715.
- 24 K. Shuaib, "A Performance Evaluation Study of WiMAX Using Qualnet". World Congress on Engineering (WCE'09), London, UK, Jul., 2009.

Software Engineering

Contributing Faculty Members

Professors:

Prof. Boumediene Belkhouche, Prof. Rachida Dssouli

Associate Professors:

Dr. Harmain Harmain

Assistant Professors:

Dr. Faheem Ahmed, Dr. Mamoun Awad, Dr. Salah Bouktif, Dr. Rabeb Mizouni, Dr. AbdulMutalib Masaud Wahaishi

Books

-
- Ahmed, F., Capretz, L.F., and Campbell, P.R.J., "Software Product Lines: A Process
1 Assessment Methodology, A Practitioner's Approach". VDM Verlag, Berlin, Germany, ISBN
978-3-639-11908-4, Jan. 2009.
- 2 M. Awad, L. Khan, B. Thuraisingham, and L. Wang, "Design and Implementation of Data
Mining Tools". Taylor and Francis, ISBN 978-1-420-04590-1, Jun., 2009.

Journals

-
- R. Aburukba, A. Masaud-Wahaishi, H. Ghenniwa, and W. Shen, "Privacy-Based Computation
1 Model in e-Business". International Journal of Production Research (Taylor and Francis), Vol.
47, Issue No. 17, Jan., 2009, pp. 4885 - 4906.
- Ahmed, F., Capretz, L.F., "An Organizational Maturity Model of Software Product Line
2 Engineering". Software Quality Journal (Springer), Oct., 2009. Online, available at
<http://www.springerlink.com/content/7r6267q44657k114/>
- Badidi, E., Salem, M.V., Bouktif, S., and Esmahi, L., "A Web Services based Framework for
3 Uniform Integration of Command-line Bioinformatics Software Tools". International Journal
on Web Services Practices, Vol. 1, Issue No. 4, May, 2009, pp. 36 - 43.
- K. Bendjilali, F. Belkhouche, and B. Belkhouche, "Robot Formation Modeling and Control
4 based on the Relative Kinematics Equations". International Journal of Robotics and
Automation, Vol. 24, Issue No. 1, 2009.
<http://www.actapress.com/PaperInfo.aspx?PaperID=34778>
- A. Masaud-Wahaishi, and H.H. Ghenniwa, "Privacy Based Information Brokering for
5 Cooperative Distributed e-Health Systems". Journal of Emerging Technologies in Web
Intelligence, Vol. 1, Issue No. 2, Nov. 2009, pp. 161 - 171.
- A. Masaud-Wahaishi and H. Ghenniwa, "Agent-Oriented Privacy-Based Information
6 Brokering Architecture for Healthcare Environments". International Journal of Telemedicine
and Applications (Hindawi), Vol. 2009, 2009, Article ID 101382 (17 pp.).
- Xia, W., Capretz, L.F., Ho, D., and Ahmed, F., "Updating Weight Values of Function Point
7 Counting". International Journal of Hybrid Intelligent Systems (IOS Press), Vol. 6, Issue No. 1,
2009, pp. 1 - 14.

Conferences

-
- Ahmed, F., Campbell, P., and Laghari, M.S., "Cognitive Factors in Software Product Line
1 Engineering". International Conference on Computer Modeling and Simulation, 2009, pp. 352
- 355.
- Ahmed, F., Campbell, P., Jaffar, A., and Capretz, L.F., "Managing Support Requests in Open
2 Source Software Project: The Role of Online Forums". International Conference on Computer
Science and Information Technology, 2009, pp. 590 - 594.

- 3 Ahmed, F., Campbell, P., Jaffar, A., and Capretz, L.F., "Managing Dynamic Requirements in Open Source Software: The Role of Online Forums". Workshop on QACOS-OSSPL'09, joint with the International Conference on Open Source Systems OSS'09, Skovde, Sweden, Jun. 3-6, 2009.
- 4 Ahmed, F., Campbell, P., Jaffar, A., and Capretz, L.F., "Defects in Open Source Software: The Role of Online Forums". International Conference on Software and Data Engineering, 2009, pp. 174 - 178.
- 5 F. Ahmed, S. Bouktif, and L.F. Capretz, "Organizational Behavior and Software Product Line Engineering: An Empirical Study". International Conference on Computer Systems and Applications (AICCSA'09), Rabat, Morocco, May 10-13, 2009, pp. 420 - 427.
- 6 Aziz, J., Ahmed, F., and M.S. Laghari, "Empirical Analysis of Team and Application Size on Software Maintenance & Support Activities". International Conference on Information Management and Engineering, 2009, pp. 47 - 51.
- 7 Beg, A., Withana, C., and Ahmed, F., "Analyzing Sensitivity of Code Execution Efficiency to Software and Hardware Parameters". International Conference on Innovative Technologies in Intelligent Systems and Industrial Applications, 2009, pp. 61 - 65.
- 8 Y. Belkhouche and B. Belkhouche, "Formal Specification and Simulation of the Robot Path Planner". International Conference on Systems, Man, and Cybernetics, Oct., 2009, pp. 4484 – 4489.
- 9 M. Hayajneh, I. Khalil, and M. Awad, "Non-Cooperative Uplink Power Control Game for CDMA Wireless Communications Systems". International Symposium on Computers and Communications (ISCC'09), Sousse, Tunisia, Jul. 5-8, 2009, pp. 587 - 592.
- 10 Hope, B, Campbell, P., and Ahmed, F., "A Services Science Major in a Bachelor of Science (IT) Program: The Case of UAE University". International Conference on Information Resource Management (Conf-IRM'09), Dubai, UAE, May 21-23, 2009.
- 11 L. Ismail, and B. Belkhouche, "Full and Autonomic Mobility Management for Mobile Agents". International Conference on Advances in Future Internet (AFIN'09), Athens/Glyfada, Greece, Jun. 18-23, 2009, pp. 31 - 38.
- 12 I. Khalil, M. Hayajneh, and M. Awad, "SVNM: Secure Verification of Neighborhood Membership in Static Multi-hop Wireless Networks". International Symposium on Computers and Communications (ISCC'09), Sousse, Tunisia, Jul. 5-8, 2009, pp. 368 - 373.
- 13 Laghari, M.S., and Ahmed, F., "Wear Particle Profile Analysis". International Conference on Signal Processing Systems, 2009, pp. 546 - 550.
- 14 A. Masaud-Wahaishi, and A. Gaouda, "Privacy Based Information Brokering for Cooperative Distributed e-Health Systems". International MCETECH Conference on e-Technologies (MCETCH'09), Ottawa, Canada, May 4-6, 2009.
- 15 R. Mizouni, and A. Salah, "Behavioral Model Composition: A Non Functional Requirements Driven Approach". International Conference on Software Methodologies, Tools and Techniques, Sep., 2009, pp. 336 - 349.
- 16 R. Mizouni, A. Serhani, R. Dssouli, and A. Benharref , "Challenges in “Mobilizing” Desktop Applications: A New Methodology for Requirements Engineering". International Conference on Innovations in Information Technology (IIT'09), Al Ain, UAE, Dec., 2009, in press.
- 17 M.A. Serhani, A. Benharref, R. Dssouli, and R. Mizouni, "Toward an Efficient Framework

for Designing, Developing, and Using Secure Mobile Applications". International Conference on Software and Data Engineering, Rome, Italy, World Academy of Science, Engineering and Technology, Vol. 52, 2009, pp. 122 - 128.

- 18 Zualkernan, I.A., and Ahmed, F., "A Product Line Engineering Framework for Learning Objects". Annual Forum on e-Learning Excellence in the Middle East, 2009, pp. 201 - 211.

- J. Bentahar, M. El-Menshawy, and R. Dssouli, "An Integrated Semantics of Social Commitments and Associated Operations". Multi-Agent Logics, Languages, and Organisations: Federated Workshops (MALLOW'09), Torino, Italy, Sep. 7-11, 2009, in press.

- 19 M. El-Menshawy, J. Bentahar, and R. Dssouli, " Enhancing Engineering Methodology for Communities of Web Services ". Multi-Agent Logics, Languages, and Organisations: Federated Workshops (MALLOW'09), Torino, Italy, Sep. 7-11, 2009, in press.