

College of Information Technology

Computer Science

Contributing Faculty Members

Professors:

Prof. Ahmed E. Barbour, Prof. Peter Warren

Associate Professors:

Dr. Saad Harous, Dr. Tamer F. Rabie

Assistant Professors:

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

Chapters in Books

L. Esmahi, and E. Badidi, "Contract Negotiation in E-marketplaces". In M. Pagani (ed.),
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L. Esmahi, J.W. Edwards, and E. Badidi, "An Exploration of Demographic Inconsistencies in
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Healthcare Information Systems, Medical Information Science Reference, May, 2008, pp. 561
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M.A. Serhani, and E. Badidi, "Integration of Management of Quality of Web Services in
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M. Djoudi, and S. Harous, "Text Entry System for Semitic Languages on Mobile Devices".
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- 6 S. Harous, and Q. Nasir, "Routing Algorithms for Mobile Ad Hoc Networks". Handbook of Research on Mobile Multimedia, Idea Group, ISBN 978-1-6056, Sep., 2008, pp. 150 - 160.

Journals

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- 3 N Zaki, "Prediction of Protein-Protein Interactions Using Pairwise Alignment and Inter-Domain Linker Region". Engineering Letter/ International Association of Engineers, Vol. 16, Issue No. 4, 2008, pp. 505 - 511.
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- 5 S. Harous, D. Mechta, M. Djoudi, and A. Douar, "Agent-Based Approach for Designing and Implementing a Virtual Laboratory". International Journal of Mathematics and Computer Science, Vol. 3, Issue No. 2, 2008, pp. 127 - 140.
- 6 S. Harous, M. Al-Dubai, and Q. Nasir, "An Energy Aware Multi-path Routing Algorithm for Mobile Ad Hoc Networks". International Journal of Business Data Communication and Networking, Vol. 4, Issue No. 2, 2008, pp. 58 - 75.

Conferences

- 1 A.A. Aly, S. Bin Deris, and N. Zaki, "Research Review on the Biological Effect of Cell Phone Radiation on Human". International Conference on Innovations in Information Technology (IIT'08), Al Ain, UAE, Dec., 2008, pp. 140 - 144.
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- S. Lazarova-Molnar, and V. Beiu, "Mapping the Proxel-based Method to Reliability Analysis
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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. Driss Guerchi, Dr. Mohammad Hayajneh

Chapters in Books

V. Beiu, W. Ibrahim, and S. Lazarova-Molnar, "On Device-level Majority von Neumann Multiplexing" (Invited). In J.R. Rabunal et al. (eds.) "Encyclopedia of Artificial Intelligence". IGI Global, Hershey, PA, USA, ISBN 978-1-59904-849-9, May, 2008, pp. 471 - 479.

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- 19 B.A.M. Madappuram, V. Beiu, and M. McGinnity, "On Brain-inspired Hybrid Network Topologies for Future Nano-architectures" (Best Paper Award). Annual Research Conference ARC-9, UAEU, Al Ain, UAE, Apr. 21-23, 2008.
- 20 B.A.M. Madappuram, V. Beiu, P.M. Kelly, and L.J. McDaid, "On Brain-inspired Connectivity and Hybrid Network Topologies". International Symposium on Nanoscale Architectures NANOARCH'08, Anaheim, CA, USA, Jun. 8-13, 2008, pp. 54 - 61.
- 21 F.N. Sibai, "Evaluating the CPU, Memory and Graphics Performance of Personal Computers with OSMARK". Annual Research Conference ARC-9, UAEU, Al Ain, UAE, Apr. 21-23, 2008.
- 22 F.N. Sibai, "A New 3D Game Quality Metric". Annual Research Conference ARC-9, UAEU, Al Ain, UAE, Apr. 21-23, 2008.
- 23 F.N. Sibai, "Gauging the OpenSourceMark Benchmark in Measuring CPU Performance". International Conference on Computer and Information Science ICIS'08, Portland, OR, USA, May 14-16, 2008, pp. 433 - 438.
- 24 F.N. Sibai, "Adapting the Hyper-Ring for Many-Core Processors". International Symposium on Advances in Parallel and Distributed Computing Techniques APDCT-08, part of the International Symposium on Parallel and Distributed Processing with Applications ISPA-08, Sydney, Australia, Dec., 2008, pp. 649 - 654.
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Technology IIT'08, Al Ain, UAE, Dec. 16-18, 2008, pp. 628 - 632.

E-Commerce

Contributing Faculty Members

Professors:

Associate Professors:

Dr. Nabeel Al-Qirim

Assistant Professors:

Dr. Said Elnaffar, Dr. Mohamed Adel Serhani

Books

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- ¹ M. Adel Serhani, "A Framework and Methodology for Managing Quality of Web Services". VDM Verlag, Saarbrücken, Germany, ISBN 3836457679, Feb., 2008.

Chapters in Books

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- Benharref, M.A. Serhani, M. Salem, and R. Dssouli, "Multi-tier Framework for Management of Web Services' Quality". In "Managing Web Service Quality: Measuring Outcomes and Effectiveness". IGI Global, Sep., 2008, pp. 23 - 47.
- ² M. Adel Serhani, E. Badidi, A. Benharef, R. Dssouli, and H.Sahraoui, "Integration of Management of Quality of Web Services in Service Oriented Architectures". In V. Sugumaran (ed.), "Intelligent Information Technologies and Applications", AIIT Book Series, ISBN 978-1-5990, 2008, pp. 190 - 220.

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 - 2 Al-Qirim, N., "A Framework for Electronic Government Adoption and Diffusion". Annual Research Conference, UAEU, Al Ain, UAE, Apr. 21-23, 2008.
 - 3 Al-Qirim, N., "Electronic Government in the Emirate of Dubai in the United Arab Emirate". International Conference on Innovations in Information Technology (IIT'08), Al Ain, UAE, Dec. 16-18., 2008, pp. 386 - 390.
 - 4 Al-Qirim, N., "Electronic Government Issues and Implications". International Conference on Innovations in Information Technology (IIT'08), Al Ain, UAE, Dec. 16-18, 2008, pp. 391 - 395.
 - 5 Al-Qirim, N., "Information and Communication Technologies Integration in Teaching: Facilitation versus Dictation". International Conference on e-Learning, Cape Town, South Africa, Jun. 26-27, 2008, pp. 1 - 10.
 - 6 A.A. Aly, S.B. Deris, Nazar Zaki , "Research Review on the Biological Effect of Cell Phone Radiation on Human". International Conference on Innovations in Information Technology (IIT'08), Al Ain, UAE, Dec. 16-18, 2008, pp. 140 - 144.
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 - 9 E. Badidi, M.A. Serhani, and I. Taleb, "Evaluating Performance of Web Services over Wireless LAN". Annual Research Conference, UAEU, Al Ain, UAE, Apr., 2008.
 - 10 E. Badidi, M.A. Serhani, L. Esmahi, and M. Elkoutbi, "Practical Load Distribution Models for Web Services based environments". International MCETECH Conference on e-Technologies, Montreal, Canada, Jan., 2008, pp. 258 - 261.
 - 11 H. Yahyaoui, Z. Maamar, J. Bentahar, N. Sahli, S. Elnaffar, and P. Thiran, "On the Reputation of Communities of Web Services". International Conference on New Technologies in Distributed Systems (NOTERE'08), Jun., 2008, Art. No. 4.
 - 12 M.A. Serhani, E. Badidi, and H. Hasan, "A Multi-Broker based Architecture for Web Services Selection". Annual Research Conference, UAEU, Al Ain, UAE, Apr., 2008.
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 - 15 N.T. Loc, and S. Elnaffar, "A More Efficient Algorithm for Scheduling Divisible Workloads in Distributed Computing Platforms". International Workshop on Advanced Computing and Applications 2008 (ACOMP'08), Mar., 2008, pp. 168 - 187.

- Q. Sheng, U. Nambiar, A. Sheth, B. Srivastava, Z. Maamar, and S. Elnaffar, "Workshop Summary - International Workshop on Context-Enabled Source and Service Selection, Integration and Adaptation". World Wide Web Conference (WWW'08), Apr., 2008, pp. 1263 - 1264.
- 16 S. Elnaffar, "A Matching Algorithm for Selecting Web Services Based on Non-Functional Features". Americas Conference on Information Systems (AMCIS'08), Aug., 2008, Paper 74.
- 17 S. Elnaffar, Z. Maamar, H. Yahyaoui, J. Bentahar, and P. Thiran, "Reputation of Communities of Web services - Preliminary Investigation". International Symposium on Web and Mobile Information Services (WAMIS'08), Mar., 2008, pp. 1603 - 1608.
- 18 Y. Atif, M.A. Serhani, P. Campbell, and M. Sujith, "Trusted Translation Services". International Conference on Collaborative Computing: Networking, Applications and Work sharing (CollaborateCom), Orlando, Florida, USA, 2008, pp. 778 - 791.

Enterprise Systems

Contributing Faculty Members

Professors:

Associate Professors:

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

Assistant Professors:

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

Chapters in Books

-
- Al-Jaroodi, J., N. Mohamed, H. Jiang, and D. Swanson, "An Overview of Parallel and Distributed Java for Heterogeneous Systems: Approaches and Open Issues". Concurrent & Parallel Computing: Theory, Implementation & Applications, Alexander S. Becker (ed.), Nova Science Publishers, Hauppauge, New York, ISBN 1604562749, June, 2008.
- 1 Benlamri, R., J. Berri, and Y. Atif, "Context-Aware Mobile Learning on the Semantic Web ". Advances in Ubiquitous Computing: Future Paradigms and Directions, IGI Publishing, 2008, pp. 23 - 43.
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Journals

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1 Solving Spatial Range Queries using k-Nearest Neighbor Searches". *Geoinformatica*, Vol. 13,
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- Mohamed, N., and J. Al-Jaroodi, "A Middleware Service for Increasing Applications
2 Integration Availability". *Journal of Computer Science*, Vol. 4, No. 2, Feb., 2008, pp. 95 - 102.

Conferences

- Ahmed, F., L.F. Capretz, and A. Jaffar, "The Business of Software Product Family: An
1 Empirical Survey". *International Conference on Computer Science and Information
Technology 2008 (ICCSIT'08)*, Singapore, 2008, pp. 745 - 749.
- Al-Jaroodi, J., A. Kharbash, A. Al-Dhaheri, A. Shamisi, A. Al-Dhaheri, F. Al-Qayedi, and S.
2 Al-Dhaheri, "Collaborative Resource Discovery in Pervasive Computing Environments".
International Symposium on Collaborative Technologies and Systems (CTS'08), Irvine, CA,
USA, May, 2008, pp. 135 - 141.
- Alkobaisi, S., P. Vojtěchovský, W.D. Bae, S.H. Kim, and S.T. Leutenegger, "The Truncated
3 Tornado in TMBB: A Spatiotemporal Uncertainty Model for Moving Objects". *Database and
Expert Systems Applications (DEXA'08)*, LNCS 5181, Aug., 2008, pp. 33 - 40.
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5 *International Conference on Collaborative Computing: Networking, Applications and
Worksharing (CollaborateCom'08)*, Orlando, FL, USA, Nov., 2008, pp. 778 - 791.
- Aziz, J., F. Ahmed, A. Jaffar, and P.R.J. Campbell, "The Correlation of Software Testing
6 Efforts and Software Project Estimation: An Empirical Study". *International Conference on
Software Methodologies, Tools, and Techniques (SoMeT'2008)*, Sharjah, UAE, Apr., 2008,
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- Campbell, P.R.J., B. Hope, and A. Jaffar, "Preparing Future IT Managers for the Services
7 Economy". *Education Methodology Summit on Services Computing*, part of the Congress on
Services, Honolulu, HI, USA, Jul., 2008, pp. 53 - 56.
- Ditsa, G., "Trends and Challenges Facing Developing World in Adoption and Use of ICTs: A
8 View Towards Bridging the Digital Divide". *International Business Conference*, Detroit, MI,
USA., Aug., 2008.
- Fadel, M.A., A. Hussein, F. Sallabi, and A. Jaffar, "Applying Mobile Computing Technology
9 in Traceability of a Poultry Production System". *UAEU Annual Research Conference*, Al-
Ain, Abu Dhabi, UAE, 2008.
- Jawhar, I., Z. Trabelsi, and J. Al Jaroudi, "Towards More Reliable Source Routing in
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- Mohamed, N., and J. Al-Jaroodi, "Characteristics of Middleware for Networked Collaborative
11 Robots". *International Symposium on Collaborative Technologies and Systems (CTS'08)*,

Irvine, CA, USA, May, 2008, pp. 524 - 531.

Mohamed, N., J. Al-Jaroodi, and I. Jawhar, "A Generic Notification System for Internet
12 Information". International Conference on Information Reuse and Integration (IRI'08), Las Vegas, USA, July, 2008, pp. 166 - 171.

Mohamed, N., J. Al-Jaroodi, and I. Jawhar, "Enabling Real Information-Based Student
13 Projects". International Conference on Information Technology in Education and Training, Ho Chi Minh City and Vung Tau, Vietnam, Dec., 2008.

Mohamed, N., J. Al-Jaroodi, and I. Jawhar, "Middleware for Robotics: A Survey".
14 International Conference on Robotics, Automation and Mechatronics (RAM'08), Chengdu, China, Sep., 2008, pp. 736 - 742.

Mohamed, N., J. Al-Jaroodi, and I. Jawhar, "A Framework for Generic Internet-Based
15 Information Notification". International Conference on Internet and Web Applications and Services (ICIW'08), Athens, Greece, June, 2008, pp. 563 - 568.

Information Security

Contributing Faculty Members

Professors:

Associate Professors:

Dr. Alaaeldin Aly, Dr. Zouheir Trabelsi

Assistant Professors:

Dr. Najah Abu Ali, Dr. Ezedin Barka, Dr. Wassim El-Hajj, Dr. Safuat Hamdy, Dr. Issa Khalil,
Dr. Emad Eldin Mohamed

Journals

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Network Engineering

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Software Engineering

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