

Name: Dr Paisarn Muneesawang
Area/Track: Information System

Journal

L. Guan, Horace H. S. Ip, Paul H. Lewis, Hau-San Wong, and P. Muneesawang (Editors), "Information Mining from Multimedia Databases" Special Issue, *EURASIP Journal on Applied Signal Processing*, Volume 2006.

P. Muneesawang and L. Guan, "Video retrieval using an adaptive video indexing and automatic relevance feedback," *IEEE Trans. on Circuits and Systems on Video Technology*, Vol 15, No. 8, pp.1032-1046, August 2005.

M. J. Kyan, K. Jarrah, P. Muneesawang, and L. Guan, "Self organizing threes & forests strategy for unsupervised multimedia processing, *IEEE Computational Intelligence Magazine*, Page(s): 27- 40, Vol. 1, Issue 2, 2006.

Book contributions

P. Muneesawang, and L. Guan, *Multimedia Database Retrieval: A Human-Centered Approach*, Springer, to appear in 2006.

Book Chapter: J. Lay, P. Muneesawang, T. Amin, and L. Guan, "Semantic Video Retrieval by Audiovisual Cues" in *Semantic-Based Visual Information Retrieval*, Idea Group, Inc. 2006.

Name: Ahmad Daud Jaffar
Area/Track: Information Systems

A. Jaffar, and H. Shah, **Semiotic Notation Principles for Business Process Modeling**, Proceeding of the 14th European Conference on Information Systems 2006, in Gothenburg, Sweden.

A. Jaffar, and H. Shah, **Theoretical Principles for Representing Business Process Models: The Marriage between Semiotics and Cognitive Psychology**, Proceeding of the 10th Pacific Asia Conference on Information Systems 2006, in Kuala Lumpur, Malaysia.

Name: Shakil Akhtar
Area/Track: Network Engineering

Conference

"Performance of UAE University Campus Computer Network," in Proc. of 7th Annual UAE University Research Conference, April 2006. (with H. Kidwai, M.A. Qader, K. Shuaib and F. Sallabi)

"Distance Learning Methodologies for the Web," in Proc. of International Workshop on Web Based Learning: Innovation and Challenges (WeLearn-2006), April 18, 2006 held in conjunction with International Conference on Interactive Mobile and Computer Aided Learning (IMCL-2006), Amman, Jordan, April 19-21, 2006.

"Performance of Next Generation Mobile Communication Systems," in Proc. 4th WSEAS Int. Conference on Computational Intelligence, Man-Machine Systems, and Cybernetics, pages 248-253, Miami, Florida, November 17-19, 2005.

"An Integrated Architecture for Ubiquitous Military Compound Networks," in Proc. 9th World Multi-Conference on Systematics, Cybernetics and Informatics, Volume VIII, pages 113-119, July 10-13, 2005, Orlando, Florida. (with A. Lakas, K. Shuaib and E. Barka)

Journal

"Evolution of an Inter University Data Grid Architecture in Pakistan", WSEAS Transactions on Information Science and Applications, Vol. 2, Issues 9, pages 1361-1366, September 2005. (with A.P. Memon)

Book contributions

1. "Wireless LAN Performance," in Handbook of Wireless Local Area Networks: Applications, Technology, Security, and Standards, pages 25-49, CRC Press, 2005. (Edited by M. Ilyas and S. Ahson)
2. "2G-4G Networks: Evolution of Technologies, Standards, and Deployment," in Encyclopedia of Multimedia Technology and Networking, Ideas Group Publisher, pages 964-973, 2005. (Edited by Margherita Pagani)

Name: Beverley G. Hope
Area/Track: E-Commerce

Book Chapters

Schroeder, A., & Hope, B. (forthcoming, 2006). Information flows in a New Zealand Sheep Meat Supply Chain. In Y.C.W. Wang, M.S.H. Heng, and Y.K.P. Chau (Eds), *Supply Chain Management: Issues in the New Era of Collaboration and Competition* (pp. 45-63). Hershey, PA: Idea Group Publishing.

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Tate, M., Coker, B., & Hope, B.G. (2005). Moving to multi-channel e-commerce: Lessons learned from an apparel and home-ware catalogue company. *Journal of Internet Commerce*, 4(2), 3-32. ISSN 1533-2861

Tate, M., Hope, B.G., & Coker, B. (2005). The Buywell way: Seven essential practices of a highly successful multi-channel e-tailer. *Australian Journal of Information Systems*, 12(2), 147-163. ISSN 1449-8618

Conferences

Hope, B.G., & Tate, M. (2006). Delivering Online Service. *Proceedings of the 39th Annual Hawaii International Conference on System Sciences*, (CD-ROM), Hawaii, 4-7 January, 2006, Computer Society Press, 2006 (1 page).

Johnstone, D., Huff, S. & Hope, B. (2006) IT projects: conflict, governance, and systems thinking. *Proceedings of the 39th Annual Hawaii International Conference on System Sciences*, (CD-ROM), Hawaii, 4-7 January, 2006, Computer Society Press, 2006 (9 pages).

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Tate, M., Hoshek, D., & Hope, B.G. (2005). A Model for the Effective Management of Reusable Learning Objects: Lessons from a Case Study, in P.Y.K. Chau, C-P Wei, & B. Yen (Eds) *Proceedings of the Ninth Pacific Asia Conference on Information Systems*, pp 1009-1022. Bangkok, Thailand, 7-10 July 2005. CD-ROM ISBN: 988-98554-3-7

Name: Mohammed Boulmalf
Area/Track: Network Engineering

Conference

M Boulmalf, T. Rabie, K.Shuaib, A. Lakas, H. El-Sayed "Performance

Characterization of IEEE 802.11g in a Cubicle Office Environment", Accepted for EMC2006, July 06-07, Spain, **2006**.

A. Lakas, K. Shuaib, M. Boulmalf, "ACP: An Interactive Classroom Response System for Active Learning Environment", Accepted for presentation at Mobile and Wireless Learning Workshop, July 3-6, **2006**, Vancouver, Canada

K.Shuaib, M. Boulmalf, F. Sallabi and A. Lakas, "Co-existence of Zigbee and WLAN, A Performance Study" proceeding of the IEEE Wireless Telecommunications Symposium (WTS) 2006, Pomona, CA, April 27-29, **2006**.

A. Lakas and M. Boulmalf, "Study of the Effect of Mobility Hand-Over on VoIP over WLAN." Submitted to 10th IEEE/ACM* International Symposium on Distributed Simulation and Real Time Applications. October 2-4, 2006. Torremolinos, Malaga, Spain.

K.Shuaib, M. Boulmalf, F. Sallabi and A. Lakas, "Co-Existence of WLAN and WPAN Communication Systems", 7th Annual UAE University Research Conference, April **2006**, Al-Ain, UAE.

M. Boulmalf, K.Shuaib, and A. Lakas, "Performance Measurements of Video Streaming over Wireless LANs", 7th Annual UAE University Research Conference, April **2006**, Al-Ain, UAE.

H. Harbi, M. Boulmalf, A.B. Abubakar, "The good, the bad and the ugly: Teaching with Microsoft PowerPoint" in the Proc. of the Second Annual Middle East Teachers of Science Mathematics and Computing (METSMaC 2006) Conference, Abu Dhabi, UAE, 14-16 March **2006**.

A. Lakas, F. Sallabi, M. Boulmalf, K. Shuaib, H. El-Sayed "A Proactive Resource Management in 3G Networks" Mobile and Wireless Communication Networks 2005, MWCN2005, Marrakech, Morocco, September 19-21, **2005**.

Chapters

K. Shuaib and M. Boulmalf, "Co-existence of WLAN and WPAN Communication Systems" for the Handbook of Research in Mobile Business: Technical, Methodological and Social Perspectives" IDEA group publishing (IGP), Hershey, PA, USA, April 2006

Name: Bruce Mills

Area/Track: CS

Conference

"Evaluation time of boolean functions: an estimation methodology based on the path length of their bdd representations", P.W.C. Prasad, M. Raseen and B.I. Mills, In IIT05: The second international conference in Innovations in Information Technology.

"Evaluation time estimate for pass transistor logic circuits" P.W.C. Prasad, M. Raseen, B.I. Mills, A. Assi, S.M.N.A. Senanayake, V.C. Prasad. In DELTA 2006: The 3rd International Workshop on electronic design, test and applications. January 2006, Kuala Lumpur, Malaysia.

"Evaluation time of boolean functions: an estimation methodology based on the path length of their bdd representations" P.W.C. Prasad, M. Raseen and B.I. Mills, A. Assi, in IIT05.

Formal Presentation of Two Initial Variable Ordering Algorithms for Binary Decision Diagrams. B.I.Mills, P.W.Prasad, A.Assi in the 2006 international conference on

modelling, simulation and visualisation. (MSV06).

Journal

``Empirical Analysis based Mathematical Representation for Path Lengths Complexity Behavior", C Prasad, B Mills, A Assi, A El-Chouemi, Journal of Computer Science (JCS) (2005)

Name: Dr. Fadi Sibai

Area/Track: Computer Systems Engineering

Name: Dr. Imad Jawhar

Area/Track: Network Engineering

Book Chapters

Jawhar and J. Wu, "Quality of Service Routing in Mobile Ad Hoc Networks," *Resource Management in Wireless Networking*, M. Cardei, I. Cardei, and D. -Z. Du (eds.), Springer, Network Theory and Applications, pages 365-400, 2005, ISBN: 0-387-23807-7.

E. Fernandez, I. Jawhar, M. Petrie, and M. VanHilst, "Security of Wireless and Portable Device Networks: An Overview," [The handbook of Wireless Local Area Networks: Applications, Technology, Security, and Standards](#), M. Ilyas, Syed Ahson, CRC Press, Internet and Communications Series, 2005, pages 51-68, ISBN: 0-849-32323-1.

Journals

Jawhar and J. Wu, "Race-Free Resource allocation for QoS Support in Wireless Networks," *Ad Hoc & Sensor Wireless Networks: An International Journal*, Vol. 1, No. 3, May 2005, 179-206.

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Jawhar and J. Wu, "A Routing Protocol for Interference Free Resource Scheduling in Wireless Networks Using Directional Antennas," Submitted to *Ad Hoc & Sensor Wireless Networks: An International Journal*, 2006.

Conferences

Jawhar and J. Wu, "Resource Allocation in Wireless Networks Using Directional Antennas," *The Fourth IEEE International Conference on Pervasive Computing and Communications (PerCom-06)*, Pisa, Italy, March 13-17, 2006, pages 318-327. Publisher IEEE Computer Society, 2006.

Jawhar and J. Wu, "A Dynamic Range Resource Reservation Protocol for QoS Support in Wireless Networks," *The 3rd ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-05)*, Cairo, Egypt, January 3-5, 2005.

Name: Toufik Taibi

Area/Track: Software Engineering

Books

1. **Toufik Taibi** (Ed), *Design Patterns Formalization Techniques*, To Appear in

September 2006, Idea Group Inc., Hershey, USA.

Book Chapters

2. **Toufik Taibi**, An integrated Approach to Design Patterns Formalization, To appear in Design Pattern Formalization Techniques, Toufik Taibi (Ed), Idea Group Inc., Hershey, USA.

3. Abid, F.M. Abbou, H. T. Ewe, and **Toufik Taibi**, All-Optical Internet: Next-Generation Network Infrastructure for E-Service Applications, To appear in Architecture of Reliable Web Applications Software, Moh'd A. Radaideh & Hayder Al-Ameed (Eds), Idea Group Inc., Hershey, USA.

Journals

Toufik Taibi, Formalizing Design Patterns Composition, To appear, IEE Proceedings Software*, 2006.

Fathi Taibi and **Toufik Taibi**, A Service-Level Security Protocol for Bluetooth Scatternets, To appear in International Arab Journal of Information Technology (IAJIT), 2006.

Conferences

Toufik Taibi and Taieb Mkadmi, A Java Code Generator from BPSL Specifications of Design Patterns, 7th UAEU Research Conference, pp. 46-54, UAE 2006.

Toufik Taibi and Fathi Taibi, On the Formal Specification of the Behavioral Aspect of Design Patterns, Proceedings of the 4th International conference on Computer Science and Information Technology CSIT 2006, Volume 1, pp. 41-47, Jordan 2006.

Toufik Taibi, Abdelouahab Abid and Engku Fariez Engku Azahan, A Comparative Simulation of Dynamic Load Balancing Algorithms, To appear in 4th International conference on Computer Science and Information Technology CSIT 2006, Volume 1, pp. 405-410, Jordan 2006.

Fathi Taibi and **Toufik Taibi**, A Unification Tool for Object-Z Specifications, Proceedings of the 4th International conference on Computer Science and Information Technology CSIT 2006, Volume 1, pp. 56-64, Jordan 2006.

Toufik Taibi and Fathi Taibi, Formal Specification of Design Patterns and Their Instances, ACS/IEEE AICCSA'06, pp. 33-36, UAE, 2006.

Toufik Taibi, Formal Specification of Design Patterns' Relationships, Proceedings of The IASTED International Conference on Advances in Computer Science and Technology, ACST 2006, pp. 310-315, Mexico, 2006.

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Name: Elsayed Hemayed
Area/Track:Software Engineering

Conferences

Elsayed E Hemayed, "Using Surface Extended Polar Map (SEPMaP) For Surface Matching and Scale Factor Estimation," Proceedings of the 24th IASTED

International Multi-Conference Signal Processing, Pattern recognition, and Applications, Feb. 15-17, 2006, pp. 127-132, Innsbruck, Austria.

Elsayed E Hemayed, "*Surface Extended Polar Map (SEPMaP): An Orientation-independent, Scale Invariant Surface Representation Scheme for Surface Matching*," the 7th Annual UAE University Research Conference, April 20-22, 2006, Al-Ain, UAE.

Name: Emad Eldin Mohamed
Area/Track: Information Security

Conferences

E. Mohamed and H. Kamel, "The Early Stages of T&Browse: A Spoken Shared Internet Browser for the Blind," The 2006 International Conference on Internet Computing (ICOMP'06), Las Vegas, USA, June 26-29, 2006.

E. Barka, E. Mohamed, K. Hayawi, "End-To- End Security Solutions for WLAN: A performance Analysis for the Underlying Encryption Algorithms in the Lightweight Devices," The International Wireless Communications and Mobile Computing Conference (IWCMC 2006), Vancouver, Canada, July 3-6, 2006.

E. Barka, E. Mohamed, K. Hayawi, "Enhancement of End-To End wireless Security Solutions for WLAN," the 7th Annual UAEU Research Conference, Al-Ain, United Arab Emirates, April 23-25, 2006.

Emad Mohamed and Ezedin Baraka, "Playing Cryptography: An E-learning Approach," submitted for The 9th International Conference on Interactive Computer aided Learning, ICL2006, September 27 – 29, 2006, Villach, Austria

Name: Dr Harmain Mohammed Harmain
Area/Track: Computer Science

Conference

Hatem Haddad, H. M. Harmain, H. El- Khatib, Natural Language Processing for Information Retrieval. . The 7th UAE University Conference, April 2006, Al Ain, UAE.

Name: Hatem Haddad
Area/Track:IS

Name: Hesham El-Sayed
Area/Track:Network Engineering

Conferences

H. El-Sayed, M . Jaseemuddin, H. Kidwai, and A. Lakas, "Simulation and Analysis of an Integrated GPRS and WLAN Network", the 4th IASTED international conference on Communications, Internet and Information Technology (CIIT2005), October 31 - November 2, 2005, Cambridge, USA.

W. Ibrahim and H. El-Sayed, "Novel Heuristic and Genetic Algorithms for The VLSI Test Coverage Problem", the 4th ACS/IEEE AICCSA-06 Conference, Dubai, UAE, March 8-11, 2006.

L. Huang, M. Jaseemuddin, and H. El-Sayed, "QoS Assurance of Handover TCP Flows in a DiffServ-enabled Mobile Wireless Access Network", the 4th ACS/IEEE AICCSA-06 Conference, Dubai, UAE, March 8-11, 2006.

M. Boulmalf, T. Rabie, K. Shuaib, A. Lakas and H. El-Sayed, "Performance

Characterization of IEEE802.11g in Office Environment", the European and Mediterranean Conference on Information Systems 2006 (EMCIS06), July 6-7, 2006, Spain

H. El-Sayed, O. Bazan, U. Qureshi, M. Jaseemuddin, "Performance Evaluation of TCP in Mobile Ad-Hoc Networks", The 2nd International Conference on Innovations in Information Technology (IIT'05), Dubai, UAE, September 26-28, 2005.

H. El-Sayed and W. Ibrahim, "QoS Aware Integrated Charging and CAC Framework for Wireless Networks", the 7th UAEU Research Conference, April 2006, Al-Ain, UAE.

M. Boulmalf, T. Rabie, K. Shuaib, A. Lakas and H. El-Sayed, "Performance Characterization of IEEE802.11g in Cubicles Environment", the 7th UAEU Research Conference, April 2006, Al-Ain, UAE

Z. Traabelsi, H. El-Sayed and T. Rabie, "A Covert Communication Channel Based on the IP-Header Record Route Option", submitted for publication

Name: Hesham M. Kamel
Area/Track: CS

Name: Mohammad Suleiman Hayajneh
Area/Track: Computer System Engineering

Journals

M. Hayajneh and [Chaouki T. Abdallah](#), "Performance of Game Theoretic Power Control Algorithms for Wireless Data in Flat Fading Channels", Submitted to the *Journal of Wireless Communications and Mobile Computing (Wiley)*, Apr. 2006

Conferences

M. Hayajneh, M. Costa, and [Chaouki T. Abdallah](#), "Exploiting Multiuser Diversity in Scheduling MIMO Cellular Systems", Accepted to the *2nd IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2006)*, Montreal, Canada, June 19th-21st 2006.

Name: Dr. Nabeel A. Al-Qirim
Area/Track: E-Commerce

Journals

Al-Qirim, N. (2005). An Empirical Investigation of an E-Commerce Adoption-Capability Model in Small Businesses in New Zealand. *Electronic Markets (EM) Journal*, 15(4), Winter 2005.

Al-Qirim, N. (2005). Critical Success Factors for Strategic Telemedicine Planning in New Zealand. *Telemedicine Journal and e-Health* (The Journal of the American Telemedicine Association), 11(5), 600-607.

Al-Qirim (2006). The Adoption and Usage of Mobile and Wireless Technologies in Small to Medium-Sized Enterprises: A Meta model. *Forthcoming in World Review of Science, Technology and Sustainable Development (WRSTSD) Journal*, 3(2), April, 123-136 .

Al-Qirim, N. (2006). The Case of Tele-Psychiatry Adoption and Diffusion in a Healthcare Organisation in New Zealand. *Journal of Cases on Information Technology (JCIT) (Formerly Annals of Cases on Information Technology)*, 8(1), 31-48.

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Al-Qirim, N. (2006). A Framework for Information Technology Success in HealthCare Organisations: The Case of Championing Telemedicine Adoption in New Zealand. *Forthcoming in the International Journal of Medical Informatics (Elsevier)*.

Al-Qirim, N. (2006). Personas of eCommerce adoption in SMEs in New Zealand, *Journal of Electronic Commerce in Organizations (JECO)*, 4(3), 18-45.

Al-Qirim, N. (2006). The King and I-nternet: The case of eCommerce adoption and empowerment in an NGO in Jordan. *Forthcoming in the Information Technology for Development (A Wiley Journal)*.

Sarkar, N. & **Al-Qirim, N.** (2006). Upgrading to Gigabit Ethernet: The Case of a Large New Zealand Organisation. *Forthcoming in the International Journal of Business Data Communications and Networking*.

Al-Qirim, N. (2006). The Adoption of eCommerce Communications and Applications Technologies in Small Businesses in New Zealand. *Forthcoming in Electronic Commerce Research and Applications (ECRA) Journal (Elsevier)*.

Books

Nabeel **Al-Qirim** (2006). Global Electronic Business Research: Contemporary Issues, Implications and Future Trends. Hershey, London: Idea Group Publishing (pp. 374).

Full research papers in Refereed Conferences & Proceedings

Sarkar, N. & **Al-Qirim, N.** (2005). The Battle for an ISP: The Case of a Polytechnic Institution in New Zealand, *In the proceedings of the 2005 Information Resources Management Association International (IRMA) Conference*, San Diego, USA, May 15-18, 691-693.

(Chair) **Al-Qirim** (2005). The impact of the entrepreneurial characteristics of the CEO on eCommerce adoption in SMEs in New Zealand, *In the proceedings of the 2005 Information Resources Management Association International (IRMA) Conference*, San Diego, USA, May 15-18, 72-79.

Al-Qirim (2005). The adoption and diffusion of telemedicine: The case of healthcare organizations in the UAE. Oral presentation. In the proceedings of the 6th Annual UAE University Research Conference, April 24-26, Al-Ain, UAE.

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Sarkar, N. & **Al-Qirim, N.** (2005). Teaching TCP/IP Networking Using Hands-on Laboratory Experience. *In the 2005 International Research Conference on Innovations in Information Technology (IIT2005)*, Dubai, UAE.

(Session Chair) **Al-Qirim, N.**, Al-Haj Ali, E. & Sarkar, N. (2005). Public Key Infrastructure (PKI) and Mobile Commerce: Issues, Implications and Future Trends. *Forthcoming in the 2005 International Conference on Globalization, Technology and Sustainable Development*. Organized by the World Association for Sustainable Development ([WASD](#)) ([The Third International Conference](#)) and College of Business and Economics ([CBE](#)) ([The Sixth Annual Conference](#)), 21-23 November, Abu-Dhabi, UAE, p. 243-250.

Al-Qirim, N. (2005). The Adoption and Usage of Mobile and Wireless Technologies in Small to Medium-Sized Enterprises in New Zealand: A Meta model. *Forthcoming in the 2005 International Conference on Globalization, Technology and Sustainable*

Development. Organized by the World Association for Sustainable Development ([WASD](#)) ([The Third International Conference](#)) and College of Business and Economics ([CBE](#)) ([The Sixth Annual Conference](#)), 21-23 November, Abu-Dhabi, UAE, p. 251-262.

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Al-Qirim (2006). Realizing Telemedicine Advantages at the National Level: Cases from the United Arab Emirates. In the proceedings of the 6th Annual UAE University Research Conference, April 22-24, Al-Ain, UAE, 88-97.

Al-Qirim, N. (2006). Telemedicine Adoption and Initiation in the UAE. Under review by the ICE-B 2006, part of ICETE - The International Joint Conference on e-Business and Telecommunications, Technically Co-Sponsored by the IEEE Systems.

Al-Qirim, N. (2006). Mobile commerce adoption in Small Businesses in New Zealand. Under review by the ICE-B 2006, part of ICETE - The International Joint Conference on e-Business and Telecommunications, Technically Co-Sponsored by the IEEE Systems.

Book Chapters

Al-Qirim (2005). **TELEMEDICINE: BUILDING KNOWLEDGE-BASED TELEHEALTH CAPABILITY IN NEW ZEALAND.** In Wickramasinghe, N., Gupta, J. & Sharma, S. (eds.). *Creating knowledge-based healthcare organizations*, 193-206. Hershey, London: Idea Group Publishing.

Al-Qirim, N. (2005). The Adoption and Usage of Mobile and Wireless Technologies in Small to Medium-Sized Enterprises in New Zealand: A Meta model. In Allam Ahmad (eds.). *World sustainable development outlook 2005: Global competitiveness: A common goal in digital society*, 285-300. Emerald Group Publishing Limited.

Al-Qirim (2006). Electronic business research in small businesses: A global perspective. In **Al-Qirim, N.** (eds.). *Global electronic business research in small to medium-sized enterprises: Contemporary issues, implications and future trends*, 1-13. Hershey, , London: Idea Group Publishing

Name: DR. NAZAR ZAKI

Area/Track: MACHINE LEARNING, BIOINFORMATICS/ CS

Journals

Zaki, N. M., (2006). "String Scoring Method for Protein Homology Detection" In the 7th Annual UAEU Research Conference.

Zaki, N. M. and Deris, S. (2005). "Representing Protein Sequence with Low Number of Dimensions". **Journal of Biological Sciences**, 5(6): 795-800.

Zaki, N. M., Deris, S., and Illias, R. M. (2005). "Performance analysis of string kernel on protein remote homology detection", **Applied Bioinformatics**, Volume 4, issue 1, pages 45-52.

Conferences

Zaki, N. M., (Accepted). "Detecting Remote Protein Evolutionary and Structural Relationships via String Scoring Method" In the **IEEE International Conference on Machine Learning and Cybernetics (ICMLC 2006).**

Zaki, N. M., (2006). "String Scoring Method for Protein Homology Detection" In the **7th Annual UAEU Research Conference**.

Zaki, N. M., Deris, S., and Illias, R. M. (2005). "Simple Representation of Protein Sequence for detecting homology" In the **International Conference on Artificial Intelligence ICAI'05**, LA, USA.

Name: Dr. Piers Campbell
Area/Track: Information Systems

Book Chapters

PRJ Campbell & K Adamson, "Computational Intelligence in Renewable Power Engineering", Submitted to Computational Intelligence Modeling Techniques and Applications, Edited by Ranadhir Ghosh, Moumita Ghosh, John Yearwood and Siddhivinayak Kulkarni.

Journals

PRJ Campbell, K Adamson, "A Novel approach to wind forecasting in the United Kingdom and Ireland", International Journal Of Simulation Systems, Science & Technology, Published by UK Simulation Society, pp. 1-10, Volume 6, No.12-13, November 2005, ISSN 1473-8031

Conferences

PRJ Campbell & K. Adamson, "Methodologies for Load Forecasting", Accepted to the 3rd IEEE Conference on Intelligent Systems, London, September 2006.

Adamson K., Campbell P.R.J., Orsoni A., "Hybrid Decision Support Based on Data Mining and AI Techniques for the Management of Maintenance Services in the Public Transport Sector" In Proceedings of IEEE Third International Workshop on Intelligent Data Acquisition and Advanced Computing Systems: Technology and Applications, 5th-7th September 2005, Bulgaria, pp. 674-678. ISBN 0-7803-9446-1.

P.R.J. Campbell, K. Adamson, "An Investigation of a Multi-Layered Perceptron for Wind Time Series Forecasting", In Proceedings of the 4th International Multiconference on Computer Science & Information Technology (CSIT 2006), Amman, Jordan.

Name: Valeriu Beiu
Area/Track: CSE

Journals

S. Roy and V. Beiu
Majority Multiplexing — Economical Redundant
Fault-Tolerant Design for Nano Architectures
IEEE Trans. Nanotech., 2005, vol. 4, no. 4 pp. 441 – 451

M. Sulieman and V. Beiu
On Single Electron Technology Full Adders
IEEE Trans. Nanotech., 2005, vol. 4, no. 6 pp. 669 - 680

Conferences

V. Beiu, A. Zawadzki, R. Andonie, and S. Aunet
Using Kolmogorov Inspired Gates for Low Power Nanoelectronics
Proc. IWANN'05, Barcelona, Spain, Jun. 2005, Springer Verlag pp. 438 – 445

V. Beiu, A. Djupdal, and S. Aunet

- Ultra Low-Power Neural Inspired Addition
When Serial Might Outperform Parallel Architectures
Proc. IWANN'05, Barcelona, Spain, Jun. 2005, Springer Verlag pp. 486 – 493
- V. Beiu, S. Aunet, J. Nyathi, R. Rydberg III, and A. Djupdal
On the Advantages of Serial Architectures for
Low-Power Reliable Computations
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- S. Aunet, and V. Beiu
Ultra Low Power Fault Tolerant Neural Inspired CMOS Logic
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On Kolmogorov's Superpositions
Novel Gates and Circuits for Nanoelectronics?
Proc. IEEE IJCNN'05, Montreal, Canada, July 2005 pp. 651 – 856
- V. Beiu, J. Nyathi, and S. Aunet
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- S. Aunet, Y. Berg, and V. Beiu
Ultra Low-Power Redundant Logic Based on Majority-3 Gates
Proc. IFIP VLSI, Perth, Australia, Oct. 2005
- V. Beiu, J. Nyathi, S. Aunet, M. Sulieman
Femto Joule Switching for Nano Electronics
Proc. IEEE AICCSA, Sharja, UAE, Mar. 2006 pp. 415 – 423
- M. Sulieman, and V. Beiu
Multiplexing Schemes for Single Electron Technologies
Proc. IEEE AICCSA, Sharja, UAE, Mar. 2006
- V. Beiu
On Multiplexing and Other Redundancy Schemes
IEEE NANOARCH, Boston, USA, Jun. 2006 Accepted
- V. Beiu, and M. Sulieman
On Multiplexing and Other Redundancy Schemes
IEEE NANO, Cleveland, USA, Jul. 2006 Accepted

Name: Walid Ibrahim
Area/Track: CIT / Computer System Engineering

Journals

- 1- W. Ibrahim and J.W. Chinneck, "Improving Solver Success in Reaching Feasibility for Nonlinear Constraints", Elsevier Computers and Operations Research journal, accepted for publication.

Refereed Conference Publications

- 1- W. Ibrahim, A. El-Chouemi, and H. Amer, "A Two-Phase Genetic Algorithm for VLSI Test vector Selection", IEEE WCCI06, July 2006, accepted for presentation.
- 2- W. Ibrahim, H. Amer, "An Adaptive Genetic Algorithm for VLSI Test Vector Selection", IASTED ASM06, June 2006, accepted for presentation.
- 3- W. Ibrahim, A. El-Chouemi, and H. Elsayed, "Novel Heuristic and Genetic Algorithms for VLSI Test Coverage Problem", IEEE AICCSA06, March 2006.
- 4- W. Ibrahim, J.W. Chinneck "The Effect Of Initial Point Placement on the Feasibility of Nonlinear Mathematical Models", IIT'05, Dubai, Sept. 2005

Un-refereed Conference Publications and Presentations

- 1- W. Ibrahim and H. El-Sayed, "QoS Aware Integrated Charging and CAC Framework for Wireless Networks", UAE Univeristy sixth research conference, April, 2006
- 2- J.W. Chinneck, W. Ibrahim, "Improving Solver Success in Reaching Feasibility for Sets of Nonlinear Constraints", 9th INFORMS 2005, November 2005, San Francisco, USA

Name: Zouheir Trabelsi

Area/Track: Information Security / Information Security Track

Conferences

Paper : "A Covert Communication Channel for Hidden E-commerce Data Exchange".

Authors : Lilia Frikha and Zouheir Trabelsi

Conference: IEEE Pacific Rim International Workshop on Electronic Commerce (IEEE-PRIWEC 2006), March 27 - 28, 2006, Tokyo, Japan.

Paper: "Secret short message forwarding over IP covert channel"

Authors: Zouheir Trabelsi and all.

Submitted to "The International Conference on Security and Cryptography (SECRYPT 2006)", 7-10 August, Portugal.

Paper: "Spoofed ARP packets detection in Switched LAN networks"

Authors: Zouheir Trabelsi and all.

Submitted to "The International Conference on Security and Cryptography (SECRYPT 2006)", 7-10 August, Portugal.

Journals

Book contributions

Book: (Written in French)

- Title: "Espionage in TCP/IP networks: Sniffers and AntiSniffers"
- Publication date : October 2005
- Publisher: Hermes Science Publications, France/UK

- Authors : *Trabelsi Zouheir*
- Subject: This book is about Sniffers and AntiSniffers in a TCP/IP networks. Sniffers are programs used by hackers to capture all packets in a network, so that hackers can spy any users. The detection of such malicious programs is a very hard task. However, AntiSniffers are programs that try to detect all hosts running Sniffers in a network. This book will be divided in three main parts. The first part describes how Sniffers are implemented. The second part presents the dangers of Sniffers and describes many attack scenarios that can be performed by Sniffers. The last parts will describe all the techniques used to detect a sniffing host in a TCP/IP network. So far, there is no book available about Sniffers and AntiSniffers.

Magazine

Article (in French language) title : « *L'espionnage dans les réseaux : Les Sniffers* »

Magazine : « *Regards sur l'Intelligence Economique* »

Volume: January-February, number : 13

Name: Driss Guerchi

Area/Track: Computer System Engineering

Journals

• D. Guerchi and A. Mitiche, "Low-Complexity Cepstral Speech Recognition Systems", *the International*

Journal of Advanced Media and Communication. (To be submitted at the end of May.)

(b) Conferences

• D. Guerchi, "Embedded Reference Memory in Automatic Speech Recognition Systems", *The 8th International Symposium on Signal Processing and its Applications*,

Sydney, Australia, 2005.

• D. Guerchi and A. Louzi, "Multi-Track Codebook in Low-Rate CELP Coding", *IEEE International*

Symposium on Industrial Electronics, Montreal, Canada, 2006.

Name: Dr. Leila Ismail

Area/Track: Computer Science

Conferences

- Leila Ismail. Connection Migration Mechanisms in a Cluster Environment. ICGGI 2006 Bucharest, Romania (01 – 03 August 2006). To be published in IEEE Computer Society Press – 2006.

Name: Farag M. Sallabi

Area/Track: Network Engineering

1. F. Sallabi, K. Shuaib and M. Shafique, "Quality of Service Provisioning for UMTS Network Users with Immediate and Advance Radio Resource Reservation", accepted

for publications in Journal of the Franklin Institute, 2006.

2. Sallabi, Ahmed Karmouch and Khaled Shuaib "Design and Implementation of a Network Domain Agency For Scaleable QoS in the Internet", Computer Communications Journal, Elsevier Science, Vol 28/1 pp 12-24, Feb. 2005.

3. Khaled Shuaib, Abderrahmane Lakas and Farag Sallabi, "Smoothing and Transporting Video in QoS IP Networks", Accepted for publication on International Journal of Communication Systems, 2005.

Conferences

1. K. Shuaib, M. Boulmalf, F. Sallabi and A. Lakas, "Co-existence of WLAN and WPAN Communication Systems", The 7th Annual Research Conference, April 22-

24, 2006, Al Ain, United Arab Emirates.

2. A. Lakas, F. Sallabi, M. Boulmalf, K. Shuaib and H. Elsayed, "A Proactive Resource Management in 3G Networks", the Seventh IFIP International Conference on Mobile and Wireless Communication Networks Marrakech, Morocco, 19-21 September 2005.

3. K. Shuaib and F. Sallabi, "Extending OSPF for Large Scale MPLS Networks," Proceeding of the 25th IEEE Sarnoff Symposium, Princeton, New Jersey, USA, April 18-19, 2005.

4. F. Sallabi, K. Shuaib and M. Shafique, "Performance Evaluation of Immediate and Advanced Radio Resource Reservation for UMTS Networks", Proceeding of ICMSAO'05 First International Conference on Modeling, Simulation, and Applied Page 5 of 6 Optimization, to be held in the American University of Sharjah, Sharjah, UAE on February the 1st, 2005.

5. F. Sallabi, A. Lakas, M. Boulmalf and K. Shuaib "WCDMA Downlink Simulator with Efficient Wrap-Around Technique", Proceeding of the Second IEEE, IFIP International Conference on Wireless and Optical Communication Networks, WOCN 2005, Dubai, March 6-9, 2005.

6. K. Shuaib, M. Boulmalf, F. Sallabi and A. Lakas, "Performance Analysis: Coexistence of IEEE 802.11g with Bluetooth", Proceeding of the Second IEEE, IFIP International Conference on Wireless and Optical Communication Networks, WOCN 2005, Dubai, March 6-9, 2005.

Name: Dr George Ditsa
Area/Track: Information Systems

Conference

Ditsa, G, Wei, D & Wang J. (2006). "Towards A Successful Adoption and Use of EIS in Organizations: A Proposed EIS Life Cycle", *The IASTED International Conf on Intelligent Systems and Control –ISC 2006* – Honolulu, Hawaii, USA August 14 – 16, 2006.

Ditsa, G. & Alwahaishi, S. (2006). "The Impact of Culture on the Adoption and Use of IT in the UAE", The 7th Annual UAE University Research Conference, April 22 – 24, Al Ain, UAE.

Ditsa, G. (2005). "Issues of ICTs and Development in Less Developed Countries: A Case of Africa and A View Towards Bridging The Digital Divide", 2005 *IRMA International Conference*, San Diego, USA, May 14 – 19, 2005.

Ditsa, G. & Alwahaishi, S. (2005). "The Impact of Culture on the Adoption and Use of IT in the UAE: A Preliminary Study", The 6th Annual UAE University Research Conference, April 24 – 26, Al Ain, UAE.

Name: PR Warren
Area/Track : Computer Science

The Java Language and its Learnability PR Warren and A Barbour College of Information Technology U.A.E. University. UAEU Research Conference.

Name: Dr. Safuat Hamdy
Area/Track: IT Security

Journals

S. Hamdy and F. Saidak: On Some Arithmetic Properties of Class Numbers. In *JP*

Journal of Algebra and Number Theory, vol. 6, no. 1, April 2006, pp. 129—148.

Name: Tamer Rabie
Area/Track: Computer Vision/CS, CSE

Journals

T. Rabie, “Robust Estimation Approach for Blind Denoising”, *IEEE Transactions on Image Processing*, vol. 14, No. 11, pp. 1755-1765, November 2005.

T. Rabie, “Robust Color Television Blind DeSparkling”, submitted to the *Elsevier Journal of Applied Soft Computing (ASOC)*, January 8, 2006.

T. Rabie, “The Image Inside: A Novel Approach to Data Hiding”, submitted to *Elsevier Pattern Recognition (PATCOG)*, the *Journal of the Pattern Recognition Society*, April 8, 2006.

Conferences

T. Rabie, “Robust Color Video Denoising”, *Proc. of the 4th IEEE International Conference on Computer Systems and Applications (AICCSA-06)*, pp. 792-798, Dubai/Sharjah, UAE, March 8-11, 2006.

M. Boulmalf, **T. Rabie**, K. Shuaib, H. El-Sayed, and A. Lakas, “Performance Characterization of IEEE 802.11g in Office Environment”, accepted for publication in the *Proceedings of the European and Mediterranean Conference on Information Systems 2006 (EMCIS 2006)*, Costa Blanca, Spain, July 6-7, 2006.

Z. Trabelsi, **T. Rabie**, H. El-Sayed, “Secret Short Message Forwarding over IP Covert Channel”, submitted to the *International Conference on Security and Cryptography (SECRYPT 2006)*, Portugal, August 7-10, 2006.

T. Rabie, “Robust Estimation Approach for Blind Color Video Denoising”, *The Seventh Annual U.A.E. University Research Conference*, pp. 81-87, Al-Ain, U.A.E., April 22-24, 2006. (Received the UAEU Research Affairs Award for this work).

Name: Said Elnaffar
Area/Track: E-Commerce

Conference

Pat Martin, Said Elnaffar, and Ted Wasserman. *Workload Models for Autonomic Database Management Systems. Proceedings of the IEEE International Conference on Autonomic and Autonomous Systems (ICAS'06)*, IEEE Computer Society Press, USA. (July 19-21, 2006).

□ Nguyen The Loc, Said Elnaffar, Takuya Katayama, and Ho Tu Bao. A Scheduling Method for Divisible Workload Problem in Grid Environment. *Proceedings of the IEEE International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT '05)*, IEEE Computer Society Press, p.513-517, Dalian, China. (December 5-8, 2005).

□ Said Elnaffar and Nguyen The Loc. A Methodology for Dynamic Scheduling of Divisible Workloads in Grid Environments. *Proceedings of the 5th WSEAS Int. Conf. on SIMULATION, MODELING AND OPTIMIZATION (SMO '05)*, Corfu Island, Greece (August 17-19, 2005).

□Fujian Liu, Dwight Makaro, and Said Elnaffar. Classifying E-commerce Workloads under Dynamic Caching. *Proceedings of the IEEE International Conference on Systems, Man and Cybernetics (SMC2005)*, p. 2819-2826, Hawaii, USA (October 10-12, 2005).

Journal

□Said Elnaffar and Nguyen The Loc. Enabling Dynamic Scheduling in Computational Grids by Predicting CPU Utilization. *WSEAS Transactions on Communications Issue 12, Volume 4*, December 2005, ISSN:1109-2742 pages 1419-1426.

Name: Moulay Elarbi Badidi
Area/Track: Computer Science

Book Chapters

M. Adel Serhani, M. Elarbi Badidi, M. Vall Mohamed Salem. "A Scalable QoS-aware Web Services Management (QOSMA) Architecture". To appear on "Architecture of Reliable Web Applications Software", Idea Group Inc.

Journal

M.A. Serhani, R. Dssouli, H. Sahraoui, A. Benharref, M. E. Badidi. "QoS Integration in Value-Added Web Services". *International Journal of Intelligent Information Technologies*. To appear.

Conferences

Elarbi Badidi and M.A. Serhani. "QoSMA: A Broker-based Architecture for Web Services QoS Management". The UAEU 7th Annual Research Conference, April 2006, Al-Ain, UAE.

Elarbi Badidi, Larbi Esmahi, and M.A. Serhani. "A Queuing Model for Service Selection of Multi-classes QoS-aware Web Services". In *Proceedings of The 3rd IEEE European Conference on Web Services (ECOWS'05)*, Sweden, November 2005, pp. 204-212.

M.A. Serhani, R. Dssouli, H. Sahraoui, A. Benharref, M. E. Badidi. "QoS Integration in Value Added Web Services". The Second International Conference on Innovations in Information Technology (IIT'05), Dubai, UAE.

Name: Azam Beg, PhD
Area/Track: Computer System Engineering

Conferences

* A Assi, P Chandana,, **A Beg**, "Boolean Function Complexity and Neural Networks", 17th IASTED International Conference on Modeling And Simulation (MS 2006), May 24-26, 2006, Montreal, January 2006. (**Accepted**).

* A. Assi, P. W. Chandana Prasad and **A. Beg** "Boolean Function Complexity and Neural Networks", 7th WSEAS International Conference on Neural Networks (NN'06), June 12-14, 2006, Croatia. (**Accepted**).

A Beg, Y Chu, "Improved Instruction Fetching with a New Block-Based Cache Scheme", IEEE ISSCS Conference, July 2005. (**Accepted**).

(* I created all the models (which is the main contribution of these papers) but my name does not appear as the first author. This is based on an agreement with BDD research team that the team member names would be rotated on submissions.)

Name: Khaled Shuaib
Area/Track: Network Engineering

Book Chapters

- Khaled Shuaib and Mohamed Boulmalf, "Co-existence of WLAN and WPAN Communication Systems," the "Handbook of Research in Mobile Business: Technical, Methodological and Social Perspectives" IDEA publication, April 2006, USA
- Khaled Shuaib, "Migration to IP Telephony", the Encyclopedia of Multimedia Technology and Networking, IDEA publication, May, 2005.

Journals

- Khaled Shuaib and Farag Saalabi, "Extending Link State IGPs for Load Management in MPLS Networks" Accepted to the International Journal for Computers and Their Applications.
- F. Sallabi, K. Shuaib and M. Shafique, "Quality of Service Provisioning for UMTS Network Users with Immediate and Advance Radio Resource Reservation", Accepted for publication at a special issue of the Journal of the Franklin Institute, Elsevier Science. Page 7 of 10
- K. Shuaib, A. Lakas and F. Sallabi, "Smoothing and Transporting Video over QoS IP Networks", Journal of Communication Systems, Wiley Inter-science, April-May 2006.
- Sallabi, Ahmed Karmouch and Khaled Shuaib "Design and Implementation of a Network Domain Agency For Scaleable QoS in the Internet", Computer Communications Journal, Elsevier Science, Vol 28/1 pp 12-24, Feb. 2005.

Patents

- B. Bash, K. Shuaib, T. Saadawi, "Method for De-Jittering of Transported MPEG-2 and MPEG-4 Video", United States Patent number 7,012,982, issued April, 8 2006.

Conferences

- K. Shuaib, M. Boulmalf, F. Sallabi and A. Lakas, "Co-existence of Zigbee and WLAN, A Performance Study" proceeding of the IEEE Wireless Telecommunications Symposium (WTS) 2006, Pomona, CA, April 27-29, 2006.
- A. Lakas, K. Shuaib, M. Boulmalf, "An Interactive Classroom Response System for Active Learning Environment" Accepted for presentation at the International workshop on mobile and wireless learning to be held in Vancouver, Canada from July 3-6, 2006 in conjunction with IWCMC 2006.
- M. Boulmalf, T. Rabie, K. Shuaib, and A. Lakas "Performance Characterization of IEEE802.11g in Office Environment" Accepted for presentation at the European and Mediterranean Conference on Information Systems, 2006 to be held in Licante, Spain, July 6- 7, 2006.
- A. Lakas, K. Shuaib, F. Sallabi, M. Boulmalf and H. El-Sayed, "A Proactive Resource Management in 3G Network", Proceeding of the 7th IEEE/IFIP International Conference on Mobile and Wireless Communication Networks (MWCN2005), September, 2005, Marrakech.
- A. Lakas, K. Shuaib, E. Barka and S. Akhtar, "An Integrated Architecture for

Ubiquitous Military Compound Networks”, Proceeding of the 9th World Multi-conference on Systemic, Cybernetics and Informatics (WMSCI 2005) to be held in Orlando, USA, on July 10-13.

• K. Shuaib and F. Sallabi, “Extending OSPF for Large Scale MPLS Networks,” Proceeding of the 25th IEEE Sarnoff Symposium, Princeton, New Jersey, USA April 18-19, 2005.

Name: Dr. Hazem El Khatib
Area/Track: Information Systems

Journals

QoS Constrains Model: Establishing QoS Association for Ontology-based Web Service Selection Mechanism, Rawshan Basha, Laila Taher, Hazem El Khatib, The Journal of Advanced Computational Intelligence and Intelligent Informatics (JACIII), Vol.10 No.5, Sept. 20, 2006.

QoS Information & Computation (QoS-IC) Framework for QoS-Based Discovery of Web Services, Laila Taher, Rawshan Basha, Hazem El Khatib, UPGRADE, The European Journal for the Informatics Professional, Vol. VI, Issue No. 4, August 2005.

Conferences

A Framework and QoS Matchmaking Algorithm for Dynamic Web Services Selection, L.Taher, H. El Khatib, R.Basha, The Second International Conference on Innovations in Information Technology (IIT'05), Sept. 26 – 28, 2005, Dubai, UAE.

Establishing Association between QoS Properties in Service Oriented Architecture. Laila Taher, Rawshan Basha, Hazem El Khatib, International Conference on Next Generation Web Services Practices, 22– 26 August, 2005, Seoul, Korea, IEEE Computer Society Press, pp. 163 – 168, (2005).

Name: Abderrahmane Lakas
Area/Track: Network Engineering

Conferences

A. Lakas, K. Shuaib, M. Boulmalf, “ACP: An Interactive Classroom Response System for Active Learning Environment”, Accepted for presentation at MOBILE AND WIRELESS LEARNING WORKSHOP, July 3-6, 2006, Vancouver, Canada

A. Lakas, F. Sallabi, M. Boulmalf, K. Shuaib and H. Elsayed. “A Proactive Resource Management in 3G Networks”. IEEE/IFIP International Conference on Mobile and Wireless Communication Networks, Marrakech, 19 Sep. 2005.

A. Lakas and M. Boulmalf, “Study of the Effect of Mobility Hand-Over on VoIP over WLAN.” Submitted to 10th IEEE/ACM* International Symposium on Distributed Simulation and Real Time Applications. October 2-4, 2006. Torremolinos, Malaga, Spain.

M. Boulmalf, T. Rabie, K. Shuaib, **A. Lakas**, and H. Elsayed. "Performance Characterization of IEEE802.11g in Office Environment", accepted for presentation at the EMCIS2006, Costa Blanca, Alicante, Spain, July 6-7 2006.

H. El-Sayed, M. Jaseemuddin, H. Kidwai, and **A. Lakas**. “Simulation and Analysis of an Integrated GPRS and WLAN Network.” Proceedings of the IASTED Conference on Communications, Internet, and Information Technology (CIIT2005). Cambridge, USA. Oct 31-Nov 2, 2005.

K.Shuaib, M. Boulmalf, F. Sallabi and **A. Lakas**, "Co-existence of Zigbee and WLAN, A Performance Study" proceeding of the IEEE Wireless Telecommunications Symposium (WTS) 2006, Pomona, CA, April 27-29, 2006.