

DHOFAR UNIVERSITY

UNIVERSITY RESEARCH BOARD

**Third Research Report
2004 – 2008**

September 2008

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Introduction

It has become an annual tradition for Dhofar University to publish a research report at the close of the academic year. This practice demonstrates the significance of research to us. Along with teaching excellence and service to the community, research represents one of three major strategic goals in the University mission. This should come as no surprise since universities that endorse quality higher education also support research activities. At DU, we continue to promote research through our University Research Board (URB) and through active participation in the national Research Council.

In the year 2007-2008, the budget allocated to URB was increased not only to cover participation of faculty members in international conferences but also to provide small research grants to faculty members. This measure has encouraged more faculty members to engage in research projects and to produce quality publications. As a result, this research report, our third since DU was established in 2004, shows an increase in the quantity of research output and more importantly in its quality. Many faculty members from the Foundation Program and all of the three DU colleges (Arts and Applied Sciences, Commerce and Business Administration, and Engineering) have been productive. Their research activities between January 2004 and June 2008 are listed in detail, but a statistical table that summarizes the detailed information is presented at the outset.

We are proud to include in this report articles that gained international recognition through citations and awards. Thanks to all DU scholars who contributed to this publication, but special thanks and gratitude go to His Majesty Sultan Qaboos bin Said, whose promotion of quality education and the pursuit of scientific knowledge has guided our research work and achievements.

Muhammad Ali Faour
Vice Chancellor

Explanatory Notes

- The Third Research Report of Dhofar University lists the applied and theoretical research and exhibitions of faculty from September 2004 through July 2008. It also shows the research record and potential of recently- appointed faculty.
- DU faculty are indicated with bold letters.
- Only published or presented papers are listed.
- All listings are in alphabetical order by college, department, and faculty member's family name.
- For each author, articles and exhibitions are listed starting with the most recent one.

Members of the University Research Board

Dr. Farid Chaaban, Chair, College of Engineering,
Dr. Amar Almasude, College of Arts and Applied Sciences,
Dr. Youssef Iraqi, College of Arts and Applied Sciences,
Dr. Marielle Risse, College of Arts and Applied Sciences,
Dr. Khaleequzaman Khan, College of Commerce and Business Administration,
Dr. Shanker Menon, College of Commerce and Business Administration,
Mr. Mohamad Abdul Jabbar, College of Engineering,
Dr. Yousef Gharbia, College of Engineering.

Research Funding Opportunities

The URB has established three funding schemes and research opportunities for DU faculty members. These are:

1. Short- term Faculty Development Grants, to cover the travel expenses of faculty who intend to present their work in regional or international conferences and meetings.
2. Regular Research Grants, awarded to support individual, group, or collaborative research projects. This program seeks to encourage quality research throughout the University. Faculty members are also urged to supplement URB funding with additional grants from other sources such as the National Research Council of Oman.
3. Seed Grants, awarded for newly appointed faculty members. Seed grants are intended to provide limited start-up funds for newly appointed faculty members.

National Research Council Grants

The URB has also been assigned by the Vice Chancellor and the University Council to handle applications for research support from the National Research Council (NRC) of Oman that is accepting proposals for research grants from scholars and researchers of all academic institutions in Oman. According to the NRC guidelines, there are two categories of proposals:

1. Research grants for NRC strategic topics that include:
 - a. Education sector and human resources.
 - b. Oil and natural gas.
 - c. Social sciences and culture.
 - d. Environment and natural resources.
 - e. Industrial sector.
 - f. Health sector.
 - g. Communication and IT sectors
 - h. Social services.

2. Open research topics, including topics other than those listed in the strategic list.

College of Arts & Applied Sciences

Department of Computer Science

Book Chapters

L. Mekouar, **Y. Iraqi** and R. Boutaba, "Handling Free Riders in Peer-to-Peer Networks," Agents And Peer-To-Peer Computing, LNCS 4118, Springer, 2006.

L. Mekouar, **Y. Iraqi** and R. Boutaba, "A Reputation Management & Selection Advisor Schemes for Peer-to-Peer Systems", Utility Computing, LNCS 3278, Springer, 2004.

Refereed Journal Papers

R. Ahmed, N. Limam, J. Xiao, **Y. Iraqi**, and R. Boutaba, "Resource and Service Discovery in Large-Scale Multi-Domain Networks", IEEE Communications Surveys & Tutorials, Vol. 9, No. 4, pp: 2-30, October 2007. *Winner of the 2008 IEEE Communications Society Fred W. Ellersick Prize Paper Award in the Field of Communications Systems.*

N. Limam, J. Ziembicki, R. Ahmed, **Y. Iraqi**, T. Li, R. Boutaba and F. Cuervo, "OSDA: Open Service Discovery Architecture for Efficient Cross-domain Service Provisioning," International Computer Communications Journal, Special Issue on Emerging Middleware for Next Generation Networks, Vol. 30, No. 3, pp: 546-563, 2007.

B. Aoun, R. Boutaba and **Y. Iraqi**, "Gateway Placement Optimization in WMN with QoS Constraints," IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Multi-hop Wireless Mesh Networks, Vol. 24, No. 11, pp: 2127-2136, 2006.

L. Mekouar, **Y. Iraqi** and R. Boutaba, "Peer-to-Peer's Most Wanted: Malicious Peers," International Computer Networks Journal, Special Issue on Management in Peer-to-Peer Systems: Trust, Reputation and Security, Vol. 50, No. 4, pp: 545-562, 2006.

S. Waharte, R. Boutaba, **Y. Iraqi** and B. Ishibashi, "Routing Protocols in Wireless Mesh Networks: Challenges and Design Considerations," Multimedia Tools and Applications (MTAP) Journal, Special Issue on Advances in Consumer Communications and Networking, Vol. 29, No. 3, pp: 285-303, 2006.

R. Ahmed, R. Boutaba, F. Cuervo, **Y. Iraqi**, T. Li, N. Limam, J. Xiao, and J. Ziembicki, "Service Naming in Large-Scale and Multi-Domain Networks," IEEE Communications Surveys & Tutorials, Vol. 7, No. 3, pp: 38-54, 2005.

A. Nafaa, A. Ksentini, A. Mehaoua, B. Ishibashi, **Y. Iraqi** and R. Boutaba, "Sliding Contention Window (SCW): Towards Backoff Range-based Service Differentiation Over IEEE 802.11 Wireless LAN Networks," IEEE Network Magazine, Special Issue on Wireless Local Area Networking: QoS Provisioning & Resource Management, pp: 45-51, July/August 2005.

Toufik A., A. Mehaoua, R. Boutaba and **Y. Iraqi**, "Adaptive Packet Video Streaming Over IP Networks: a Cross-Layer Approach," IEEE Journal on Selected Areas in Communications (JSAC), Special Issue on Intelligent Services and Applications in Next Generation Networks, Vol. 23, No. 2, pp: 385-401, 2005.

Y. Iraqi and R. Boutaba, "Weight Allocation in Distributed Admission Control for Wireless Networks," International Computer Communications Journal, Elsevier Science, Vol. 28, No. 2, pp: 199-214, 2005.

R. Boutaba, W. Golab, **Y. Iraqi** and B. S. Arnaud, "Lightpaths on Demand: A Web Services Based Management System," IEEE Communications Magazine, Special Issue on XML-based Management of Networks and Services, Vol. 42, No. 7, July 2004.

T. Li, **Y. Iraqi** and R. Boutaba, "Pricing and Admission Control for QoS-Enabled Internet," International Computer Networks Journal, Special Issue on Internet Economics, Vol. 46, No. 1, pp: 87-110, 2004.

N. Jabeur, P. Graniero, J. McCarthy and X. Xing, "A Knowledge-Oriented Meta-Framework for Integrating Sensor Network Infrastructures", International Journal of Computers & Geosciences, pp: 125-140, 2008.

R. Beaubrun, B. Moulin, and **N. Jabeur** "An Architecture for Delivering Location-Based Services", International Journal of Computer Science and Network Security, Vol. 7, No. 7 pp: 160-166, 2007.

N. Jabeur, B. Moulin, and B. Boulekrouche "Toward the improvement of on-the-fly web and mobile map personalization", GESTS International Journal, International Transactions on Computer Science and Engineering, Vol. 25, No. 1, pp: 109-120, 2005.

K. Kamaluddin, and M. Yousoof, "Dynamic Bandwidth Reservation for Multimedia Handover Calls in Wireless Mobile Cellular Networks", Journal of WSEAS Transactions on Communications, Issue 4, Vol. 6, pp: 532-538, April 2007.

Refereed Conference Papers and Presentations

A. Haleeb, "A line/ Mobile Communication Network for Oil Rigs", Computer Science & Information Systems International Conference, pp: 118, Athens, Greece, June 19-21, 2006.

Y. Iraqi, "A Service Driven Approach for Sensor Web Progressive Self-Adaptation", 17th IEEE International Workshop on Enabling Technologies, June 23-25, 2008.

Y. Iraqi, "Key-Hopping Based Communications", Proceedings of the IEEE International Global Information Infrastructure Symposium (GIIS 2007), Marrakech, Morocco, July 2-6, 2007.

L. Mekouar, **Y. Iraqi** and R. Boutaba, "Free Riders under Control through Service Differentiation in Peer-to-Peer Systems," Proceedings of the IEEE International Conference on Collaborative Computing: Networking, Applications and Worksharing (CollaborateCom 2005), December 19-21, 2005.

Y. Iraqi and R. Boutaba, "Handoff and Call Dropping Probabilities in Wireless Cellular Networks," Proceeding of the First International Symposium on Wireless Quality-of-Service (WiQoS05) in IEEE WirelessCom 2005 Conference, June 13-16, Vol. 1, pp: 209-213, 2005.

L. Mekouar, **Y. Iraqi** and R. Boutaba, "Handling Free Riders in Peer-to-Peer Networks," Proceeding of the Fourth International Workshop on Agents and Peer-to-Peer Computing (AP2PC 2005), pp: 58-69, 2005.

W. Liu, **Y. Iraqi** and R. Boutaba, "Zero-budget Network Dimensioning," Proceeding of the IFIP/IEEE International Symposium on Integrated Network Management (IM'2005), pp: 323-336, 2005.

R. Ahmed, R. Boutaba, F. Cuervo, **Y. Iraqi**, T. Li, N. Limam, J. Xiao, and J. Ziembicki, "Service Discovery Protocols A Comparative Study," Proceeding of the IFIP/IEEE International Symposium on Integrated Network Management (IM'2005) Application Sessions, 2005.

R. Ahmed, R. Boutaba, F. Cuervo, **Y. Iraqi**, T. Li, N. Limam, J. Xiao, and J. Ziembicki, "Service/Resource Naming a Comparative Study," Proceeding of the IFIP/IEEE International Symposium on Integrated Network Management (IM'2005) Application Sessions, 2005.

L. Mekouar, **Y. Iraqi** and R. Boutaba, "Detecting Malicious Peers in A Reputation-Based Peer-to-Peer System," Proceeding of the IEEE Consumer Communications and Networking Conference (CCNC), pp: 37- 42, 2005.

L. Mekouar, **Y. Iraqi** and R. Boutaba, "A Reputation Management & Selection Advisor Schemes for Peer-to-Peer Systems," Proceeding of the 15th IFIP/IEEE International Workshop on Distributed Systems: Operations & Management (DSOM), pp: 208-219, 2004.

Y. Iraqi, M. Ghaderi and R. Boutaba, "Enabling Real-Time All-IP Wireless Networks," Proceeding of the IEEE Wireless Communications and Networking Conference (WCNC), pp: 1500-1505, 2004.

N. Jabeur, P. and Graniero, "Agent-Based Clusters to Virtually Manage Spatially Distributed Sensors", Geo-computation International Conference, pp: 23-28, 2007.

N. Jabeur, B. Moulin, and B. Boulekrouche, "Using Multiagent Systems to Improve Real-time Map Generation", 19th Canadian Conference on Artificial Intelligence, pp: 37-48, 2006.

N. Jabeur, B. Moulin, and B. Boulekrouche, "A Multiagent-Based Approach for Real-Time Mobile Map Generation", Canadian Conference on Electrical and Computer Engineering, IEEE Canada, pp: 343-348, 2006.

N. Jabeur, and B. Moulin, "A Multiagent-Based Approach for Progressive Web Map Generation". In R. Meersman, Z. Tari and P. Herrero (editors), International Conference on Agents for Web Service Support, Volume 3762 of Lecture Notes in Computer Science, pp: 99-108, 2005.

N. Jabeur, and B. Moulin, Une approche multiagent pour la résolution de l'encombrement spatial lors de la génération automatique des cartes. Canadian Conference in Geomatics, pp: 123-135, 2004.

N. Jabeur, B. Moulin, E.F. Gbei, and I. Cosma, SIGERT: Un service Web cartographique basé sur l'utilisation de représentations multiples et des formats GML et SVG. Canadian Conference in Geomatics, pp: 96, 2004.

K. Kamaluddin, and M. Yousoof, "Dynamic Bandwidth Reservation for Multimedia and Data Applications in Mobile Wireless Cellular Networks". Proceedings of 6th WSEAS International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC 07), Corfu Island, Greece, February 16-19, 2007.

K. Kamaluddin, M. Yousoof, **Z. Zabanoot**, and **A. Haleeb**, "Congestion Control in ATM Cellular networks", Proceedings of the International Conference on Computer & Communication Engineering (ICCCE '06), International Islamic University Kuala Lumpur, Malaysia, Vol. 2, pp: 751-754, May 2006.

M. Yousoof, M. Sapiyan and **K. Kamaluddin**, "Cognitive overload in Programming-A Review". Proceedings of the 11th International Conference of SHBIE, University Brunei Darussalam, Brunei, May 2006.

K. Kamaluddin, and M. Yousoof, "Bandwidth Allocation for ABR Service in Cellular Networks", Proceedings of International Conference on Computer Science (ICCS 2006), Vienna, Austria, Vol.12, pp:237-239, May 2006.

K. Kamaluddin, and M. Yousoof, "Bandwidth allocation in mobile ATM Cellular Networks", Proceedings of International Conference on Computer Science (ICCS 2006), Vienna, Austria, Vol.12, pp: 226-230, May 2006.

M. Yousoof, M. Sapiyan and **K. Kamaluddin**, "A Proposed Framework for Visualization to Teach Computer Science", Proceedings of the International Conference of Computer Science, Vienna, Austria, Vol. 12, pp: 266-269, May 2006.

M. Yousoof, M. Sapiyan and **K. Kamaluddin**, "Reducing Cognitive Load in learning Computer Programming", Proceedings of the International Conference of Computer Science, Vienna, Austria, Vol. 12, pp: 259-262, May 2006.

M. Yousoof, M. Sapiyan and **K. Kamaluddin**, "Enhancement of Learning Programming – A better approach", Proceedings International Conference on Knowledge Management, University Putra Malaysia, KualaLumpur, Malaysia, July 2005.

M. Yousoof, M. Sapiyan and **K. Kamaluddin**, "Role and scope of Intelligent Tutoring Systems- A case based approach". Proceedings International Conference on Knowledge Management, University Putra Malaysia, KualaLumpur, Malaysia, July 2005.

K. Kamaluddin and M. Yousoof, "Routing in Mobile Wireless Networks for Multimedia Applications – Reuse of VCs", Proceedings of 3rd Enformatika Conference, Istanbul, Turkey, pp: 236-238, April 2005.

K. Kamaluddin and M. Yousoof, "Handover management in mobile wireless networks – An innovative solution", Proceedings of the International Conference on Computers, Communications and Power (ICCCP – 05), Sultan Qaboos University, Muscat, Sultanate of Oman, pp: 140-144, February 2005.

B. T. Sayed, "Amalgamating Social Information Systems – An Archetype to increase the market value and achieve quality results", Conference in Information Technology Organizations and Teams (CITOT), Lisbon, Portugal, May 19-20, 2007.

B. T. Sayed, "Social Information based Knowledge Management Systems – An archetype to congregate customer requirements within an organization," Knowledge

Management International Conference & Exhibition (KMICE), Kaulalumpur, Malaysia, June 6-8, 2006.

B. T. Sayed, and SMFD Syed Mustapha, "A Survey on Knowledge Sharing Pyramid Model among Homogeneity Community", International Conference on Knowledge Management (ICKM), Kaulalumpur, Malaysia, July 7-9, 2005.

B. T. Sayed, and SMFD Syed Mustapha, "Towards Designing the Info-structure for Developing Socio-technical Knowledge Management System (KMS)," International Conference on Knowledge Management (ICKM), Kaulalumpur, Malaysia, July 7-9, 2005.

B. T. Sayed, and SMFD Syed Mustapha, "Social Information System – A Paradigm for Characterizing Social Values in an Organization," International Conference on Knowledge Management (ICKM), Kaulalumpur, Malaysia, July 7-9, 2005.

B. T. Sayed, and SMFD Syed Mustapha, "Knowledge Sharing Pyramid: Communication, Learning and Convergence," International Conference on Knowledge Management (ICKM), Kaulalumpur, Malaysia, July 7-9, 2005.

Z. Zabanoot, G. Min, and M. E. Woodward, "Performance Modelling and Analysis of Handover Mechanisms in Wireless Cellular Networks," Int. Conf. on Computer and Communication Engineering, ICCCE'06, pp: 907-910, Kuala Lumpur, Malaysia, Vol. II, May 9-11, 2006.

Abstracts in Conference Proceedings

N. Jabeur, and P. Graniero, "A Hybrid Location-Semantic Approach to Routing Assisted by Agents in a Virtual Network". Frontiers of High Performance Computing and Networking ISPA 2007 Workshops, pp: 523-533, 2007.

N. Jabeur, and B. Moulin, "A Multiagent-Based Approach for the Resolution of Spatial Conflicts". Second European Workshop on Multiagent Systems, pp: 333-343, 2004.

B. T. Sayed, "Edificing Social Information Systems to build a Highly Productive Environment in an Organization," Conference on Information Technology Organizations and Teams (CITOT), Lisbon, Portugal, May 19-20, 2007.

Other Publications

A. Haleeb, "It is Utopic to Believe That a Theocratic Regime Will Dismantle itself in Compassion With its People", SudOnline Journal, USA, April 2006.

A. Haleeb, "The Scientific Explanations of the Relations between Ancestral Ideology

and Perversity." SudOnline Journal, USA, July 2005.

A. Haleeb, "The Hieroglyphic/Nubian Origin of the Names of Cities and Urban Sites in Sudan, the Meanings and Implications", SudOnline Journal, USA, September 2005.

R. Boutaba, N. Limam, J. Ziembicki, R. Ahmed, **Y. Iraqi**, T. Li and F. Cuervo, "OSDA: Open Service Discovery Architecture for Efficient Cross-domain Service Provisioning," Poster Presentation, HP OpenView University Association, Portugal, July 2005.

Research Work in Progress

Y. Iraqi, Performance Analysis of Key Hopping Communications

L. Mekouar, **Y. Iraqi** and R. Boutaba, **A Service Differentiation Scheme for Peer-to-Peer Systems**

Y. Iraqi, Security and Trust in Peer-to-Peer Systems, (URB Seed Grant).

Security and trust are very important issues in Peer-to-Peer (P2P) systems. The proposed research addresses these issues by providing a framework which allows for secure anonymous communications with support of online, offline and mobile users. Trust data should be handled in a scalable and efficient manner. The framework should also guarantee trust data integrity and manage peers' maliciousness and selfish behavior.

N. Jabeur, Marine Positioning, (URB Seed Grant).

Several business sectors are using localization techniques, such as Global Positioning Systems (GPS), radars, sonar, and Satellites, for the purpose of controlling remotely or tracking their freights. Although widely used worldwide, these systems are not all the time accurate. Some of them may be efficient whereas others fail. This is particularly due to jamming that may result from magnetic waves, winds, or fluctuations of pressure. For this reasons, it would be important to combine the use of these systems in order to take benefit from all of them under whatever situation. We believe that switching from one positioning systems to a more reliable systems regarding current conditions will be a considerable help. Indeed, identifying spatial positions more accurately allows for better management of rescue missions and easier operation of ships in bad metrological conditions.

Z. Zabanoot, Mobility Management in Next-generation Wireless Cellular Networks

Mobility is the most important feature of wireless cellular networks. Continuous of service is achieved by supporting handoff (or handover) from one cell to another. In my research I am developing new analytical solution to minimize the drop probability

of handover calls epically in next generation cellular networks where we will have voice and multimedia and it will be IP based.

This research project started on October 2004 and will be finished by October 2008 with Bradford University (UK) and under supervision of Dr. G. Min and M. E. Woodward.

Department of Education

Books

A. Al-Mashani, "Make the Circumstances Work for You", Dar Al-Karmal, Amman, 2007 (In Arabic).

Book Chapters

H. Yaghi, "Experience with Integrating Information and Communications Technologies into Lebanese Public Schools", In Osta (editor), Technology in Education, Lebanese Association for Educational Studies Yearbook, 2005.

Refereed Journal Papers

M. Darweesh, "Client's perception about the therapist, a study of results of relationship for some psychological neurosis problems," Journal of Psychology, Issue 61, Cairo, Jan, 2004. (In Arabic).

R. Martin, "Philosophically Based Alternatives in Education," Encounter: Education for Meaning and Social Justice, Vol. 17, No. 1, pp: 17-27, Spring 2004.

Refereed Conference Papers and Presentations

A. Al-Mashani, "Applications of Emotional Intelligence Techniques in Social Counselors Job in the Sultanate Schools", Third Symposium, Vocational Guidance, Ministry of Education, Oman, Muscat, May 21-23, 2007. (In Arabic).

A. Al-Mashani, "Quality of Personal and Vocational Needs of Omani Young People Self-employed Funding by Sanad Program", Second Symposium, Psychology and Quality of Life, Sultan Qaboos University, Oman, Muscat, December 17-19, 2006. (In Arabic).

A. Al-Mashani, "Career Guidance Based on Thinking Systems of Grade 11-12 in Oman", Second Symposium, Vocational Guidance, Ministry of Education, Oman, Muscat, May 13-15, 2006. (In Arabic).

S. Forbes and **R. Martin**, "What Holistic Education Claims About Itself: An Analysis

of Holistic Schools' Literature,” Annual Meeting of the American Education Research Association (AERA), San Diego, California, USA, April 2004.

R. Martin, “Learning for a Teacher within Holistic Education: Case Study of an Action Research Program,” Annual Meeting of the American Education Research Association (AERA), San Diego, California, USA, April 2004.

H. Yaghi, “ICT-Based Teaching and Learning Indicators”, ED-Media, World/Conference on Educational Media Multimedia Hypermedia and Telecommunications, Association for the Advancement of Computing in Education (AACE), Orlando, Florida, USA, June 27-30, 2006.

Other Publications

A. Al-Mashani, “The power of Positive thinking”, Meta-Dimensions Magazine ,Kuwait, in Arabic, July 2006.

A. Al-Mashani, “How to protect your mind from mental Magic”, Meta-Dimensions Magazine, Kuwait, in Arabic, August, 2006.

Other Research, Workshops, Seminars

A. Al-Mashani, “Skills and Ethics of Career Guidance, Theoretical Approach”, Career Guidance Workshop, General Directorate of Education Dhofar Region, Salalah, in Arabic, March 21, 2007.

A. Al-Mashani, “Enhance Self-motivation of Teachers”, Arabic Teachers Workshop, General Directorate of Education Dhofar Region, Salalah, in Arabic, March 17, 2007.

H. Yaghi, and M. Taljeh, “Digital Resource Centre”, A Database System to manage digital learning objects through networked computers. The system is being used in EDUC 247 and EDUC 220 courses at the Department of Education at AUB, 2004.

H. Yaghi, “Educational Use of Computer Networks in Schools: Implementation Modalities”, United Nations - Economic and Social Commission for Western Asia (ESCWA), AUB-REP Contract, February 2004.

Completed Research Projects

R. Martin: 3rd and 5th Grade Math Classrooms: Upward Math Extensions: A

Case Study

This case study was funded by Catlin Gabel School, independent K-12 school of Portland, Oregon. Its purpose was to examine math extensions in 3rd and 5th grade classrooms. The study utilized ethnographic classroom observations, along with interpretations of teachers and students about math activities for advanced students in creative classroom environments.

R. Martin, The Questions Project: An Analysis of Pressing Questions Generated by Teachers from Eight Innovative Schools in the U.S.

This project was funded by Foundation for Educational Renewal in collaboration with the Paths of Learning web site and database (2001-2005). The Questions Project involved in-depth interviews and email exchanges with groups of teachers from eight independent K12 schools that used experiential and holistic approaches to learning.

Department of Languages and Translation

Books

R. Al-Bainy, "Introducing Scientific Writing", Damascus University, Syria. 2005.

R. Al-Bainy, "Political Terminology and Translation", Damascus University, Syria. 2005.

R. Al-Bainy, "Dictionaries and Translation", Damascus University, Syria, 2004.

R. Al-Bainy, "Introduction to Speaking and Listening", Damascus University, Syria, 2004.

M. Tajdin, J. Badi. "Creative thinking", Research Centre, IIUM, 1st ed. 2004, 2nd ed., 2005

V. S. Thakur, "Stylistics of Indian English Fiction", New Delhi: Serials Publications, 2008.

Refereed Journal Papers

M. Al Abdullah, "Morgue of the Misbegotten: O'Neill's Pattern of Salvation in the Iceman Cometh." European Journal of American Studies, April 4, 2007.

A. Sharma, "Primary Stress in Medical Words: Implications for Teaching Pronunciation to Medical Students", *Journal of Communication Practices*, Vol. 3, No. 2, pp: 33-38, 2006.

C. Stewart, "The Anglicanism of Tristram Shandy: Latitudinarianism at the Limits", *British Journal for Eighteenth-Century Studies*, 28, 2 (Autumn) 2005.

M. Tajdin, "Towards a moderate language policy in the era of globalization", *Attasamoh Journal*. No. 9, pp:146-160, June 2005.

V. S. Thakur, "Teaching English through Cartoons and Caricatures: A Viable Approach", V.V. Vincent (ed.) *Muscat Message*. Sultanate of Oman: Ministry of Education, pp: 38-45, April 2004.

V. S. Thakur, "Using Supplementary Materials in the teaching of English", In V. V. Vincent (ed.) *Muscat Message*, Sultanate of Oman, Ministry of Education, pp: 16-23, 2005.

V. S. Thakur, "ELT through journalistic news stories: Some communicative classroom applications", Mike Ramsden (ed.) *Forum*, Vol.2, Issue 3, Sultanate of Oman, Sultan Qaboos University, pp: 20-23, Fall 2005.

V. S. Thakur, "A Pedagogical Perspective on Portfolio Development." In Vandana Lunyal (ed.) *FELT (Focus on ELT)*, Vol. 25, No. 1, pp: 33-35, October 2005.

V. S. Thakur, "Teaching English in Lighter Vein", In Fatma Noorani (ed.) *ELT in Oman*, Ministry of Education, pp:54-57, November 2006.

Refereed Conference Papers and Presentations

M. Al Abdullah, and M. Tajdin, "The Metamorphosis of Hamlet in Jabra Ibrahim Jabra's Translation, Terjemahan dan Pengglobalan Ilmu", Translation and Globalization of Knowledge, ed. Dr. Abdullah Hassan and Dr. Low Kok On, Kuala Lumpur: PTS Professional, 2005.

T. Mustapha, "Language policies and Language Hegemony" *The International Conference on Philosophy and Globalization*, Cairo, 2004.

T. Kelly and **M. Risse**, "'Treachery in the Kitchen': Traveling foreign, eating familiar," *College English Association Annual Conference*, St. Louis, MO. March 28-30, 2008.

M. Risse, "Where are the Cute Tap-dancing Penguins?: Illustrations in Artic/Antarctic Travel Books," *Modern Language Association Annual Conference*, Chicago, December 28-31, 2007.

M. Risse, "What to do After You Have the Right Answer: Introducing Uncertainty while Teaching Literature in the Middle East," Conference of the National Association of Humanities Education, San Francisco, February 20-22, 2007.

M. Risse, "Acting Your Way to Better Spoken English," TESOL Arabia Conference, Dubai, March 18-19, 2007.

A. Sharma and M. Roy, "The Sociology of Roald Dahl's 'Mrs Bixby and the Colonel's Coat'," 50th All India English Teachers' Conference, University of Lucknow, India, January 13-16, 2006.

A. Sharma and M. Roy, "Smile for Sale: A Study of Shashi Tharoor's 'The Five-Dollar Smile'", 51st All India English Teachers' Conference, Shivaji University, Kolhapur, India, December 27-29, 2006.

C. Stewart, "Sermons and the Reviewers in the Mid-Eighteenth Century", European Society for the Study of English, Imperial College London, 2006.

C. Stewart, "The Uses of Reading, Methodism and Pamela", British Society for Eighteenth-Century Studies, Oxford University, 2005.

C. Stewart, "Anglicanism, Tristram Shandy and Laurence Sterne", British Society for Eighteenth-Century Studies, Oxford University, 2004.

C. Stewart, "Tobias Smollett, Novelist and Gentleman: A Contradiction in Terms?" Crosscurrents in Scottish and Irish Literature, Trinity College, Dublin, 2004.

M. Tajdin, "Universality of religious values- A semantic analysis of the koranic worldview|. The 6th International Conference on Linguistics. Alminia, Egypt, April 2007.

M. Tajdin, "A linguistic Analysis to the Holy Koran with special reference to Toshihiko Izitsu's God and Man work", The International Conference on Contemporary Development in Koranic Studies, Beirut, Lebanon, February 2006.

M. Tajdin, and M. Al Abdullah, "The Metamorphosis of Hamlet in Jabra Ibrahim Jabra's Translation", Terjemahan dan Pengglobalan Ilmu: Translation and Globalization of Knowledge, ed. Dr. Abdullah Hassan and Dr. Low Kok On Kuala Lumpur: PTS Professional, 2005.

V. S. Thakur, "Humour and Fun in ESL / EFL Classrooms: Exploiting a Neglected Resource", Proceedings of the 7th Annual ELT Conference on Working with ELT Materials: From Design to Implementation, Language Centre, Sultan Qaboos University, Sultanate of Oman, pp:116-129, April 18-19, 2007.

V. S. Thakur, "The Internet Resources and ELT: Some Pedagogical Applications", Proceedings of the 6th Annual ELT Conference on Language Learning in the Cyber Age: Innovations and Challenges, Language Centre, Sultan Qaboos University, Sultanate of Oman, pp:71-81, April 19-20, 2006.

Abstracts in Conference Proceedings

M. Al Abdullah, "Words, Words, Words: Shakespeare's Language Strategies in Hamlet", 1st World Congress on the Power of Language: Theory, Practice, and Development, Bangkok, Thailand, May 22-25, 2006.

C. Guldemann, "Ludicrously Accurate Imitations or Symbols of The New African", International African Studies Association 2006 Annual Meeting, San Francisco, USA November 16-19, 2006.

C. Guldemann, "Drum magazine's forgery: popular culture and urban subjectivity in 1950s South Africa", South African Association of Commonwealth Literature and Language Studies conference, South Africa, July 9-12, 2006.

C. Guldemann, "Truth and Reconciliation? Detectives and Apartheid," Le Roman Policier: Themes et Perspectives, Institut Catholique de Paris, France, May 12-13, 2005.

C. Guldemann, "Interdisciplinary Approaches to Culture and Society", Modern Language Association Annual Convention, Philadelphia, USA, Dec. 27-30, 2004.

V. S. Thakur, "Cohesive Enhancement of Skills through Mini Projects", 8th Oman International ELT Conference on Integration of Skills: Creative Methods and Techniques in ELT, the Language Centre, Sultan Qaboos University, Sultanate of Oman, April 23-24, 2008.

V. S. Thakur, "From Critical Discourse Analysis to Construction and Performance of Identities in Literature", First International Conference on Building Bridges: Integrating Language, Linguistics, Literature and Translation in Pedagogy and Research, Sultan Qaboos University, Sultanate of Oman, March 21-22, 2007.

V. S. Thakur, "Stimulating Materials and Interactive Activities: A Gateway to Higher-Order Skills", 2nd International Language Learning Conference on Current Practices in Curriculum and Materials Development, Universiti Sains, Penang, Malaysia, 23-25 November 2006.

V. S. Thakur, "Potentialities of ELT through Jokes and Anecdotes: An Investigation", Muscat English Supervisors and Teachers' Yearly Forum, Ministry of Education, Sultanate of Oman, April 4-6, 2005. (Also in the National Conference of English Teachers and Supervisors, Ministry of Education, Sultanate of Oman, December 12-14, 2005.)

V. S. Thakur, "Teaching English through Cartoons and Caricatures: A Viable Approach", 5th Annual English Teachers and Inspectors' Conference, Ministry of Education, Sultanate of Oman, February 16-18, 2004.

Other Publications

C. Stewart. "Sermons and the Reviewers in the Mid-Eighteenth Century", European Society for the Study of English, 2006.

C. Stewart. "The Uses of Reading, Methodism and Pamela", British Society for Eighteenth-Century Studies, 2005.

C. Stewart. "Anglicanism, Tristram Shandy and Laurence Sterne", British Society for Eighteenth-Century Studies, 2004.

C. Stewart. "Tobias Smollett, Novelist and Gentleman: A Contradiction in Terms?", Crosscurrents in Scottish and Irish Literature, 2004.

Research Work in Progress

C. Stewart, "The Construction of Female Sexuality in the Eighteenth Century: Eliza Haywood, Samuel Richardson and Frances Sheridan".

Mustapha Tajdin (Book) An English-Arabic dictionary of English Idioms

Completed Research Projects

M. Al Abdullah, Shakespeare's Language Strategies in Hamlet.

Hamlet, probably more than any Shakespearean play, is valuable for the study of language. It has a reservoir of culture and is source of cultural patterns. Language is treated as an institution that that dictates cultural forms, values, concepts, and even aspirations. Language positions people in social classes and chases social climbers out of false locations. The play does not only entertain speech as a human phenomenon, but engages in a scrutiny of words in which they are dissected for their various dimensions, and possibilities, and the strategies of employing them in utterance. Language is treated as an invaluable gift to man. It is a show of how language can creatively and shockingly be used to confuse and attack; how it can be utilized as a tool of identification and individual realization. Shakespeare's masterpiece invites, as has always been the case, more studies on the various facets of language.

The paper was presented and well received in 1st World Congress on the Power of Language: Theory, Practice, and Development, Bangkok, Thailand, 22-25 May 2006.

M. Al Abdullah, Shakespeare's Remodeling of King John after the Reformation Archetype

The study explores Shakespeare's portrayal of King John after the Reformation monarchs of Renaissance England. The changes Shakespeare rendered on the title character make King John the most unhistorical in his canon. In fact, the language and the concepts he uses were not familiar to the English monarchs of the Twelfth-Century, but were rather those of King Henry VIII, who challenged the Roman Church and severed the English Church from it.

M. Al Abdullah, Hamlet's Arabic Translations of Jabra and Anani: A Comparative Study.

The translations of Jabra and Anani are two of the most prominent translations of Shakespeare's Hamlet. The first was two decades before the second appeared in publication. Each of them follows a different approach to the original text: Jabra's follows a literary translation approach, while Anani's uses the equivalent translation approach. Also, one uses prose, the other verse to translate the original text in blank verse. Anani's is a very creative and informed translation compared to Jabra's translation which has so many problems.

However, a lot of the original is lost in the two translations especially the connotative, allegorical, and figurative elements in the text. Cultural implications and allusions lost contact with the new audience reading the estranged text transplanted in another habitat. This is usually the case with translated works of art, but it is much so in the case of Hamlet in Arabic.

W. D. Arneson, Gulf University Students: Their Education Experience from Primary through University

Description of project: A qualitative study using life history interviews of university students who have successfully completed at least three years of university. The purpose of this study was to explore the pathways taken by the participants from early childhood. Although the focus was on their educational experience, I looked at the multi-level relationships between the individual, her family, the community, the educational system and the state. I concentrated on development and changes in an individual life when new roles, new aspirations, values and strategies of survival developed or evolved. I wanted to capture the participant's expression of her attitude and beliefs about many facets of her educational experience.

Mathematics and Sciences Unit

Refereed Journal Papers

A. Belkhirat, A. Papadopoulos, and M. Troyanov, "Thurston's weak metric on the

Teichmüller space of the torus," Transaction of the American Mathematical Society 357, pp: 3311-3324, 2005.

A. A. George, "On locally compact locally Lipschitz transformation groups on manifolds, Archivum Mathematicum, Vol. 43, pp: 159 -162, 2007.

A. A. George, "On a singular Sturm-Liouville problem in the theory of molecular vibrations", Journal of Mathematical Chemistry, Vol. 39, No.3- 4, pp: 523-539, 2006.

A. A. George, "Finite abelian actions on surfaces," Topology and its Applications, Vol.153, No.14, pp: 2591-2612, 2006.

A. A. George, "On inverse limits of finite dimensional Lie groups," J.Lie theory, 16, No.2, pp: 221- 224, 2006.

A. A. George, "Uniqueness of the group topology of some homeomorphism groups", Ark. for Math., Vol. 44, No.1, pp: 92-96, 2006.

Amar, W. Ahmed, H. Taylor, M. J. Jackson, and **I. U. Hassan**, "Hot-filament chemical vapor deposition of polycrystalline diamond coatings to inter layered steel", Journal of Materials Engineering and Performance, Vol. 15, No. 2, pp: 187-191, 2006.

E. Ahmed, R.D. Pilkington, A.E. Hill, N. Ali, W. Ahmed and **I.U. Hassan**, "Transmission Photoacoustic Spectroscopy of Flash-evaporated CuIn_{0.75}Ga_{0.25}Se₂ Thin Films", Thin Solid Films, 515, pp: 239-244, 2006.

H. Sein, W. Ahmed, M. Jackson, R. Polini, **I. U. Hassan**, M. Amar, and C. Rego, "Enhancing Nucleation Density and Adhesion of Polycrystalline Diamond Films Deposited by HFCVD using Surface Treatments and Co Cemented Tungsten Carbide", Diamond and Related Materials, Vol. 13, Issues 4-8, pp: 610-615, 2004.

A. N. Jones, W. Ahmed, **I. U. Hassan**, H. Sein and C. A. Rego, "Pulsed Biased Growth of Nanocrystalline Diamond by Hot Filament Chemical Vapour Deposition", Surface Engineering, Vol. 20, No. 3, pp: 181-185, 2004.

U. I. Safronova, R. Bista, R. Bruch, and **H. Merabet**, "Relativistic many-body calculations of atomic properties of Pd-like Ions", Canadian Journal of Physics, Vol. 86, pp: 131-149, 2008.

H. Merabet, R. Bista, R. Bruch, S. Fülling, and A. L. Godunov, "Spectroscopic Studies of Xenon EUV Emission in the 40-80 nm Wavelength Range Using an Absolutely Calibrated Monochromator", Journal of Physics, Conference Series 58, pp: 97-100, 2007.

R. Bista, **H. Merabet**, R. Bruch, and S. Fülling, "Absolute Calibration of a 1.5 m Grazing Incidence Monochromator for Extreme Ultraviolet (EUV) Diagnostics of a Plasma Source", Nuclear Instrumentation Methods B, Vol. 261, pp:166-169, 2007.

H. Merabet, R. Bista, R. Bruch, and S. Fülling, "Absolute Characterization of EUV Radiation Generated By Discharge Produced Plasma (DPP) For Lithography Applications", International Journal Of Microwave and Optical Technology, Vol. 2, No. 2, pp: 172-181, 2007.

H. Merabet, S. Kondagari, R. Bruch, S. Fülling, S. Hahto, K. L. Leung, J. Reijonen, A. L. Gudonov, and V. A. Schipakov, "EUV Emission from Xenon in the 10-80 nm Wavelength Range Using a Compact ECR Ion Source", Nuclear Instrumentation Methods B, Vol. 241, pp: 23-28, 2005.

H. Merabet, R. Bruch, R. Bista, C. Schubert, S. Kondagari, and S. Fülling, "Characterization of EUV Emission from Xenon Generated by Compact Plasma-Discharge Source for Lithography Applications", Laser-Generated, Synchrotron, And Other Laboratory X-Ray and EUV Sources, Optics, and Applications, SPIE Proceedings Vol. 5918, pp: 102-112, 2005.

S. A. Siddiqui, et al, "A Bivariate Model to Study the Stochastic Behavior of Breastfeeding Amenorrhea", Aligarh Journal of Statistics, 2007.

S. A. Siddiqui, et al, "The significant roles of Contraceptive in Reducing Fertility, Infant and Child Mortality in India," Journal of Population, Vol.13, No.1; pp: 31-46, June 2007.

S. A. Siddiqui, et al "Socio-Economic Inequalities in use of Delivery Care Services in India" The Journal of Obstetrics and Gynecology of India, Vol.56, 2, pp: 123-127, March-April, 2006.

Refereed Conference Papers and Presentations

A. Belkhirat, "On the non-quasi-isometry of the Teichmüller metric and Thurston's weak metric", Proceedings of the International Workshop on Teichmüller Theory and Moduli Problems, Harish-Chandra Research Institute, Allahabad, India 2006.

A. Belkhirat, "Divergence of certain geodesic rays on Teichmüller space" Proceedings of the International Workshop on Teichmüller Theory and Moduli Problems, Harish-Chandra Research Institute, Allahabad, India 2006.

M. Boudjema and K.R. McCall, "Lattice Boltzmann simulations of NMR phenomena in porous media", Eleventh Annual Symposium on Flow and Transport: Characterization and Modeling from Pore to Reservoir Scales, Gaithersburg, MD, USA, September 2004.

A. N. Jones, W. Ahmed, C.A. Rego, **I. U. Hassan**, and M. J. Jackson, "Nanocrystalline Diamond Films: Growth and Gas Phase Modeling Studies in Inert

Gases”, Proceedings of the 4th International Surface Engineering Congress, Minnesota, USA, August 1 -3, pp: 253, 2006.

M. Amar, W. Ahmed, H. Taylor, M. J. Jackson, and **I. U. Hassan**, “Hot Filament CVD of Polycrystalline Diamond Coatings to Interlayered Steel”, Proceedings of the 4th International Surface Engineering Congress, Minnesota, USA, August 1-3, pp: 281, 2006.

M. Amar, W. Ahmed, H. Taylor, M. J. Jackson, and **I. U. Hassan**, “Titanium Based Nitride and Carbide Coatings for Diamond Deposition”, Proceedings of the 4th International Surface Engineering Congress, Minnesota, USA, pp: 286, August 1-3, 2006.

H. Merabet, R. Bista, and R. Bruch, “Charger Transfer and Multiple Ionization Following Energetic Multiply Charged Carbon Projectiles with Neon”, 21st International Conference on X-Ray and Inner-Shell Processes, Paris, France, June 22-27, 2008.

H. Merabet, R. Bista, R. Bruch, S. Fülling, and A.L. Godunov, “Spectroscopic studies of xenon EUV emission in the 40-80 nm wavelength range using an absolutely calibrated monochromator”, 13th International Conference on the Physics of Highly Charged Ions (HCI 2006), Queen’s University Belfast, UK, August 28-September 1, 2006.

R. Bista, **H. Merabet**, R. Bruch, and S. Fülling, “Absolute Calibration of A 1.5 m Grazing Incidence Monochromator For EUV Diagnostics Of A Plasma Source”, 19th International Conference on the Application of Accelerators in Research and Industry (CAARI-2006), Renaissance Worthington Hotel in Fort Worth, Texas, USA, August 20-25, 2006.

R. Bista, **H. Merabet**, and R. Bruch, “Characterization of Xenon EUV emission from a plasma source in the 10-22 nm wavelength region using an absolutely calibrated spectrometer” 20 Years of Spectroscopy with the Electron Beam Ion Trap, Workshop, Berkeley, California, USA, November 12 - 16, 2006.

H. Merabet, R. Bista, C Schubert, S. Fülling, R. Bruch, and A. L. Godunov, “Characterization of EUV Emission from Xenon Generated by Compact Plasma-Discharge Source for Lithography Applications”, SPIE's 50th Annual Meeting and Exhibition, San Diego, California, USA, July 31 -August 4, 2005.

H. Merabet, S. Kondagari, R. Bruch, S. Fülling, S. Hahto, K-L. Leung, and J. Reijonen, “EUV Emission from Xenon in the 10-80 nm Wavelength Range Using a Compact ECR Ion Source”, 18th International Conference on the Application of Accelerators in Research & Industry, Denton USA, October 10-15, 2004.

R. Bruch, **H. Merabet**, and R. Bista, "An Experimental Study of Charge Transfer and Multiple Target Ionization and Excitation in 2- and 10-MeV $C^{4+} + Ne$ Collisions", 18th International Conference on the Application of Accelerators in Research & Industry, Denton USA, October 10-15, 2004.

S. Kondagari, **H. Merabet**, R. Bruch, S. Fülling, S. Hahto, K-L. Leung, and J. Reijonen, "EUV Spectroscopy of Hollow Ionic States using an Electron Cyclotron Resonance Ion Source (ECRIS)", 18th International Conference on the Application of Accelerators in Research & Industry, Denton USA, October 10-15, 2004.

M. Aref, and **S. A. Siddiqui**, "Acoustic Signal Analyses of a Rotating Machine", Sixth UAE MATHDAY Conference, The Petroleum Institute, Abu Dhabi, UAE, April 27-28, 2008.

Research in Progress

I. Ul Hassan, W. Ahmed, Chemical Vapor Deposition of Diamond Thin Films for Biomedical Applications

Production and Investigation of the structural, mechanical properties of thin films produced by chemical vapour deposition methods for cutting tools, biomedical implants and dental tools.

H. Merabet, R. Bista, R. Bruch, S. Fulling, and U. I. Safronova (supported by Sematech International and APW Inc., Reno, Nevada, \$150,000).

Extreme Ultraviolet (EUV) Source Characterization Using EUV Spectropolarimetry (2003-2008)

My research work in the past five years includes EUV source diagnostics using our 1.5 m grazing incidence monochromator in collaboration with the Plasma & Source Technology Group at Lawrence Berkeley National Laboratory (LBNL) under the leadership of Prof. Ka-Ngo Leung and sponsored by SEMATECH International. I have supervised the Master's thesis of a graduate student from the University of Nevada, Reno UNR (Kondagari Siddharth) who has graduated spring 2004. In addition, I have finished another experiment at the Advanced Light Source (ALS) at LBNL. In this experiment, I have successfully absolutely calibrated our EUV 1.5 m grazing Incidence Monochromator. The calibrated spectrometer will be a good tool for absolute EUV measurement related to EUV Lithography at the 13.4 nm roadmap; a subject that interest the top chip manufacturing companies. Within this project, I have supervised two Master's Students, Rajan Bista (graduated August 2005) and C. Schubert (graduated his diploma in Germany, December 2005).

Department of Social Sciences

Books

A. Abu Salih, “The Lebanese Crisis of 1958 in the Light of New Documents”, New Edition, Nawfal, Beirut, 2005.

Book Chapters

H. Al-Harthy. “Artists and Writers in Oman,” The Directory of Artists and Writers in the GCC Countries. Riyadh: Secretary General of the GCC and Dar Al-Mufradat for Publication and Distribution, 2006.

M. Faour, “Arab-Islamic Civilization and its Contribution to the Field of Sciences”, (in Arabic), Dhofar University, April 2008.

Refereed Journal Papers

A. Abu Salih, “Kitab Al Tamize of Al Amir Hussein Al Mani,” History of the Arabs and the World, Vol. 4, No. 209, 2004.

A. Abu Salih, “Popular Uprisings in Mount Lebanon during the Ottoman Rule,” History of the Arabs and the World, Vol. 24, 2004.

M. Faour, “Religion, Politics, and Demography in Lebanon.” Middle Eastern Studies, London, Vol. 43, No. 6, pp: 909-921, November 2007.

M. Faour, “Counting Shiites.” A reply to the editor. Foreign Affairs, Washington, DC, January/February 2007.

I. Y. Najjar, “Reflections of Ibn Rushd’s Plea for Rationality in Contemporary Arab Philosophy,” Journal of Indian Council of Philosophical Research, Vol. 21, pp: 62-74, October 2005.

I. Najjar, “The Legacy of Induction in Islamic Philosophy: the Original Contribution of Ibn Rushd”. Aligarh Journal of Islamic Philosophy, Aligarh, India, Vol. 85, pp: 126-143, December 2004.

L. Narayanan, and S. Menon, “Organizational Culture and Change: An Examination of Call Centers, Emotional intelligence and Work outcomes”, The International Journal of Knowledge, Culture and Change Management, Vol. 4, 2005.

Refereed Conference Papers and Presentations

H. Al-Harthy. “The Use of Quality of Life Framework in Evaluation of Al-Wafa Centers,” Fourth Symposium on The Special Needs Categories in the Twenty First Century: Ambitions and Achievement, Kuwait, April 26-May 1, 2008.

S. Menon and **L. Narayanan**, “Cultural Intelligence: Perspectives for Management and Business in the New Millennium”, The Asia-Pacific Academy of Management and Business (APAMB) Conference, Singapore, March 5-8, 2007.

L. Narayanan, and S. Menon, “Organizational Citizenship: An Occupation-Specific Examination”, The Applied Business Research Conference, Orlando, Florida January 3-6, 2005,

L. Narayanan and S. Menon, “Organizational Culture and Change: An Examination of the Service industry”. The International Management Conference on Knowledge, Culture and Change, Greenwich, London, August 10 -14, 2004.

Abstracts in Conference Proceedings

A. Abu Salih, "Lebanon in the American National Archives," Lebanese American University Conference on Lebanon in the Archives, Beirut, Lebanon, June 2005.

Other Research, Workshops, Seminars

A. Abu Salih, "Lectures on Unitarianism," (booklet, 31 pages), Al Rayeh Association, Lebanon, 2004.

I. Y. Najjar, “The Impact of Academic Advising on Registration,” Seminar on Academic and Educational Advising in the Institutions of Higher Education: Realities and Vision, General Directorate for Private Universities and Colleges, Department of Academic Services, Muscat, Sultanate of Oman, pp: 235-248, March 20, 2006.

College Of Commerce and Business Administration

Department of Accounting and Finance

Articles in Academic Journals

S. Mohanan, “Venture Capital Scenario in India”, International Journal of Entrepreneurship and Innovation Management, Vol. 6, Issues 4 & 5, pp: 447 – 486, 2006.

S. Mohanan, “Mutual Fund Industry in India: Development and Growth”, Global Business & Economic Review, Vol. 8, Issue 3 & 4, pp: 280-289, 2006.

S. Mohanan, “Micro Credit in India – An Overview”, World Review of Entrepreneurship, Management and Sustainable Development, Vol. 1, No. 1, pp: 91-100, 2005.

S. Saleh, “The Financial Effects of Corruption: A Globalization Perspective”, Aledari, Institute of Public Administration, Issue No. 105, Muscat, Oman, pp: 11-32, June 2006.

Refereed Conference Papers and Presentations

M. Ahmed, “The Essence of Scientific Research in Arab Countries,” Regional Conference on Human Resource Management and the Needs for Improving Higher Education Institutions in GCC Countries, College of Education, Salalah, Oman, March 13-15, 2007.

M. Ahmed, “Energy and Sustainable Development: Environmental Impacts of Energy Use in Africa,” International Conference on Environment: Survival and Sustainability, Near East University, Nicosia, Cyprus, February 19-24, 2007.

M. Ahmed, “Assessing the Cost of Environmental Degradation in the Middle East and North Africa Region (MENA)”, International Symposium on Drylands Ecology and Human Security (ISDEHS), Dubai, December 4-7, 2006.

M. Ahmed, “The Role of Energy in Poverty Reduction”, International Conference on Sustainable Development, New Delhi, August 25-26, 2006.

M. Ahmed, “The Impact of Tourism on Water in Arab Region (Salalah as case study)”, Regional Conference on Water Tourism in Salalah, Salalah, Oman, August

8, 2006.

M. Ahmed, “Integrating Economic and Environmental Plans at National Levels,” the 12th Annual International Sustainable Development Research Conference, University of Hong Kong, Hong Kong, April 6-8, 2006.

M. Ahmed, “Economic and social returns to the good school-community relationship”, Regional Conference on the Reform of Post-basic Education in Arab Countries, Muscat, Sultanate of Oman, April 24-26, 2005.

M. Ahmed, “Introducing Environmental Dimension in Development Plans,” Regional Conference on Environment and Development, Salalah, Oman, December 12-14, 2005.

M. Hussein, “The Impact of Scientific Research on Sustainable Development: The Case of the Arab Region,” 11th International Winelands Conference, University of Stellenbosch Business School, Bellville, South Africa, April 15-19, 2008.

M. Hussein, “Costs of Environmental Degradation: An Analysis in the Middle East and North Africa Region,” International Journal on Management of Environmental Quality, Vol. 19, No. 3, pp: 305-317, 2008.

N. Ibrahim, “Islamic Banking Behavior Towards Small Firms Financing,” National Conference in Islamic Finance, Dur Eman University, Kuala Terrenganu, Malaysia, November 27-28, 2007.

S. Saleh, “ABC and TQM: Environment Management Perspective,” The Third Gulf Meeting on Quality, Quality Applications in Management Environment, Muscat, Oman, June 5-6, 2006.

S. Saleh, “Application of TQM to Improve the Performance of Government Organizations,” The Conference of Arab Organizations of Administration Sciences, Muscat Oman, October 10-11, 2004.

Department of Marketing, Management and Information Systems

Articles in Academic Journals

M. O. Shereif Mahdi, “Obstacles to IT Introduction in the Sudanese Commercial Banking Industry”, Iranian Journal of Information Science and Technology, Vol. 5, No. 1, pp: 75-85, 2007.

M. O. Shereif Mahdi and P. Dawson, "Technology Policy and Change in Developing Economies: Advancing a Banking Strategy for World Developments", *Int. J. Technology, Policy and Management*, Vol. 6, No. 3, pp: 256-273, 2006.

M. O. Shereif Mahdi, "Barriers to IT Diffusion in a Local Banking Sector: The Case of Sudanese Banking Industry", *Journal of Banking and Financial Studies*, No. 9, pp: 9-22, July 2005.

Refereed Conference Papers and Presentations

T. Alhousary, "Enhancing Collective Virtual Learning through Creating and Nurturing a Social Virtual Environment," International Conference on Amazing e-Learning II 2008, Bangkok, Thailand, March 7-11, 2008.

F. Kurdi, and **T. Alhousary**, "IT Infrastructure for Business," E-Business in GCC: challenges and prospects", GCC Conference, Paper No. 8, Muscat, Oman, May 19, 2004.

M. Aref, and S.A. Siddiqui, "Acoustic Signal Analyses of Rotating Machine," Sixth UAE Mathday, The Petroleum Institute, Abu Dhabi, UAE, April 26-27, 2008.

M. Mazhar, and **M. Aref**, "Entrepreneurship & Decision Support System", National Conference on Innovative Trends in Entrepreneurship, Sir Sayyed College of Commerce & Science, Aurangabad (M.S.), India, February 2008.

M. Aref, "Fast Fourier Transformation using Microsoft Excel", Learning Technologies and Mathematics Middle East Conference, Sultan Qaboos University, Muscat, March 31-2 April 2007.

H. Khan, "Using Technological Tools to Solve Group Work Problems in Higher Education of Underdeveloping Countries: A Case Study." 1st International Lifelong Learning Conference on Leveraging Learning for Regional Development: An International Forum, Learning Cities and Regions, Lakehead University, Ontario, Canada, June 22-30, 2008.

H. Khan, "Role of Computer Mediated Communication in Solving Collaborative Learning Communication Problems in Higher Education: A Case Study of Dhofar Arabic Region of Oman", 5th International Conference on eLiteracy (eLit 2006), Loughborough University, England, 28-30 June 2006. Paper published in "Innovation in Teaching and Learning in Information and Computer Sciences, Vol. 5, Issue 4, Dec. 2006.

H. Khan, "Affective and Cognitive Power of Female Students of Higher Education Through the Use of Science and Technology", International Conference on The Role of Women in Nation Building, Bahaudin Zikriya University, Pakistan, 10-12

November, 2005

H. Khan, "Impact of e-Learning in the Gulf Region", 4th Global Conference – The Idea of Education, Cerge-ei, Prague, Czech Republic, August 9-11, 2005.

H. Khan, "Effectiveness of E-learning in Higher Education in Gulf," Innovation Research Conference 2005, Leeds Metropolitan University, UK, July 18-19, 2005.

H. Khan, and S. Kara, "IT and Women Empowerment: a Case Study of Omani Females in Higher Education," International Conference on Higher Education and Emerging Trends in IT, Mazoon University College, Muscat Oman, March 29-30, 2005.

K. Khan, "Performance Evaluation of Selected Mutual Funds in India and the Middle East," XVII International Conference, Academy of Business and Administrative Sciences, Troyes, France, June 7-8, 2007.

K. Khan, and S. N. Andarabi, "Concomitants of Order Statistics in a New Semi-finite Range Bivariate Distribution", Vikas, A Journal of Social Science, Humanities and Science, India, Vol. 3, No.1, pp: 65-69, December 2004.

S. Menon, "Cultural Intelligence and Management Perspectives for a New Millennium", International Academy of Management and Business, Singapore, March 4-8, 2007.

S. Menon, "Working Across Cultures: A Performance Based Evaluation of Emotional Intelligence and Cultural Intelligence", Academy of Business and Administrative Sciences, Montreux, Switzerland, July 21-23, 2006.

S. Menon, "Organizational challenges in the 21st century: An examination of call centers", Western Management Association Conference in Las Vegas, Nevada, U.S.A., February 10-14, 2005.

S. Menon, "Organizational Citizenship: An Occupation-Specific Examination", The Applied Business Research Conference, Orlando, Florida, January 2005.

S. Menon, "Organizational Culture and Change: An Examination of the Call Centre Service industry", International Management Conference on Knowledge, Culture and Change, Greenwich, London August 15-20, 2004.

M. O. Shereif Mahdi, "Technology Strategies and Change in the Banking Industry of Developing Countries: The Case of Sudan", Proceedings: AAOM, Waseda University, Tokyo, Japan, 2006.

M. O. Shereif Mahdi, “Strategies for IT and Change in the Banking sector of developing countries: The Case of The Sudanese Banking Industry”, Proceedings: IFSAM VIIIth World Congress, Berlin, Germany, September 28-30, 2006.

M. O. Shereif Mahdi, “Obstacles to IT Introduction in the Commercial Banking Sector of Developing Countries: The Case of Sudan”, Proceedings AWFBAIT Conference, Paris, France, July 10-13, 2006.

M. O. Shereif Mahdi and P. Dawson, “The Uptake and Use of Technology in the Commercial Banking Sector of Developing Countries: The Case of Sudan”, Proceedings 19th ANZAM International Conference and Research Students Colloquium, Canberra, Australia, December 7-10, 2005.

M. O. Shereif Mahdi, “Exploring the Importance of Mixed Methodology for Understanding the Management of Technological Change in Sudanese Banking Industry”, Proceedings BAMO5 Annual Conference, Said Business School, University of Oxford, United Kingdom, September 13-15, 2005.

M. O. Shereif Mahdi, “Barriers to IT Diffusion in a Local Banking Sector: The Case of Sudanese Banking Industry (SBI)”, Proceedings BAMO4 Annual Conference and Doctoral Symposium, University of Andrews, United Kingdom, August 30-September 1, 2004.

College of Engineering

Department of Electrical and Computer Engineering

Books

H. Diab, and A.Y. Zomaya, (Eds.), “Dependable Computing Systems: Paradigms, Performance Issues, and Applications”, ISBN: 0-471-67422-2, John Wiley & Sons, New Jersey, 2005.

Book Chapters

I. Damaj, “Programmable Logic Arrays,” Wiley Encyclopedia of Computer Science and Engineering, Benjamin Wah (Editor), Hoboken: John Wiley & Sons, Inc, New Jersey, January 15, 2008.

I. Damaj, “High-level Synthesis,” Wiley Encyclopedia of Computer Science and Engineering, Benjamin Wah (Editor), Hoboken: John Wiley & Sons, Inc, New Jersey, January 15, 2008.

I. Damaj, “Logic Design,” Wiley Encyclopedia of Computer Science and Engineering, Benjamin Wah (Editor), Hoboken: John Wiley & Sons, Inc, New Jersey, January 15, 2008.

I. Damaj, “High Performance Reconfigurable Computing Systems,” Supercomputing Research Advances, Y. Huang (Editor), Nova Science Publishers, New York. pp: 113-164, 2008.

S. Kasbah, R. Haraty, and **I. Damaj**, “SOR in Reconfigurable Hardware,” Advances in Industrial Engineering and Operations Research, Sio-Iong Ao and Alan H. S. Chan (Editors), Lecture Notes in Electrical Engineering, Springer, Massachusetts, V 5, pp: 453-466, 2008.

H. Diab, “Reconfigurable Computing for Cryptography,” Dependable Computing Systems: Paradigms, Performance Issues and Applications, John Wiley & Sons, New Jersey, pp: 575-607, 2005.

Papers in Refereed International Journals

F. B. Chaaban, N. Saliba, A. Dandashle, and J. H. Dennis, "Assessing the Risk of Exposure to PCBs among the Employees of the Power Sector", *World Resources Review*, Vol.20, No.2, pp: 237-246, 2008.

S. Djoundourian, I. Nuwayhid, and **F. B. Chaaban**, "Quantification of Health Impact of Air Pollution in a Developing Country", *International Journal of Applied Environmental Sciences*, Vol.2, No.1, pp:57-68, 2007.

F. B. Chaaban, S. Karaki, R. Chedid, T. Mezher, A. Hamzeh, A. Yahya, and A. Harb, "Electric Energy Access in Developing Nations: Case Studies from Jordan, Lebanon and Syria", *World Resources Review*, Vol.17, No.3, pp: 410-428, 2005.

R. Chedid and **F. B. Chaaban**, "A Decision Analysis Framework for Technology Transfer: The Case of Lebanon", *World Resources Review*, Vol.16, No.3, pp: 379-390, May 2004.

F. B. Chaaban, T. Mezher, and M. Owayjan, "Options for Emissions Reduction from Power Plants; Economic Evaluation", *Electrical Power and Energy Systems*, Vol.26, pp: 57-63, Jan. 2004.

I. Damaj, "Graphics Algorithms under High Performance Reconfigurable Systems," *International Journal of Computer Research*, Vol. 16, No. 2 and 3, 2008.

S. Kasbah, **I. Damaj**, and R. Haraty, "Multigrid Solvers in Reconfigurable Hardware," *Journal of Computational and Applied Mathematics*, Vol. 213, No. 1, pp: 79-94, 2008.

I. Damaj, "Parallel Algorithms Development for Programmable Devices with Application from Cryptography," *International Journal of Parallel Programming*, Vol. 35, No. 6, pp: 529-572, 2007.

I. Damaj, "Higher-Level Hardware Synthesis of the KASUMI Cryptographic Algorithm," *Journal of Computer Science and Technology*, Vol. 22, No. 1, pp: 60-70, 2007.

I. Damaj, "Parallel Algorithms Development for Programmable Logic Devices," *Advances in Engineering Software*, Issue 9, Vol. 37, pp: 561 – 582, 2006.

H. Diab, and J.J. Saade, "Fuzzy inference modeling methodology for the simulation of population growth," *International Arab Journal of Information Technology*, Vol. 2, No. 1, pp: 75-86, January 2005.

H. Diab, "Fuzzy logic arbiters for multiple-bus multiprocessor system," *IEEE Transactions on Systems, Man, and Cybernetics Part C: Applications and Reviews*, Vol. 34, No. 3, pp: 281-292, August 2004.

J.J. Saade, and **H. Diab**, “Defuzzification methods and new techniques for fuzzy controllers,” Iranian Journal of Electrical and Computer Engineering, Vol. 3, No. 3, Summer-Fall 2004.

K. Ramasamy, M. Siddiqi and M. Alias, “JPEG Image Transmission using Proposed Asymmetric Turbo Code”, EURASIP Journal on Advances in Signal Processing, 2007.

M. Zaman, M. Shabiul Islam and **K. Ramasamy**, “ToF measurement based novel top edge detection algorithm for a smart security system”, IEICE Electron Express, Vol. 4, No. 20, pp.617-623, 2007.

K. Ramasamy, B. Balakrishnan and M. Siddiqi, “A new class of asymmetric turbo code for 3G systems”, AEU - International Journal of Electronics and Communications, Vol. 60, No.6, pp: 447-458, 2006.

K. Ramasamy, M. Siddiqi and M. Alias, “Weight distribution analysis of proposed asymmetric turbo code for improved performance”, AEU - International Journal of Electronics and Communications, Vol. 60, No.7 pp: 479-493, 2006.

K. Ramasamy, M. U. Siddiqi, M. Y. Alias and A. Arunagiri, “Performance Comparison of Convolutional and Block Turbo Codes”, IEICE Electronics Express (ELEX), Vol. 3, No. 13, pp: 322-327, 2006.

K. Ramasamy, A. Arunagiri and B. Venkatesh, “Artificial Neural Network Approach- An Application to Radial Load Flow Algorithm”, IEICE Electronics Express (ELEX), Vol. 3, No. 14, pp:353-360, 2006.

Refereed Conference Papers and Presentations

R. Chedid, **F. B. Chaaban**, and R. Shihab, “A Simplified Electric Circuit Model for the Analysis of Hybrid Wind- fuel Cell Systems”, IEEE Power Society General Meeting, June 24-28, 2007.

R. Chedid, **F. B. Chaaban**, and R. Shihab, “An Operational Algorithm for Assessing the Performance of a Hybrid Fuel Cell- wind Energy System”, Inter. Conference on Sustainable Development of Energy Water and Environment Systems, Dubrovnik, June 4-8, 2007.

F. B. Chaaban, and R. Chedid, “Technology Needs Assessment and Sustainability of the Transport Sector of Lebanon”, World Renewable Energy Congress, Florence, August 19-25, 2006.

F. B. Chaaban, R. B. Chedid, T. Mezher, and S. Karaki, "Feasibility of Energy Policies for Poverty Alleviation in Developing Countries", World Renewable Energy Congress, Florence, August 19-25, 2006.

R. Chedid, and N. Ghaddar, **F. B. Chaaban**, M. Fadel, T. Mezher, and F. Moukalled, "A Sub- regional Outlook of Renewable Energy Potential: The Case of Jordan, Syria and Lebanon", The International Conference on Renewable Energy, Bonn, June 6-8, 2004.

I. Damaj, M. Itani, and **H. Diab**, "Serpent Cryptography on Static and Dynamic Reconfigurable Hardware," ACS/IEEE Int'l Conference on Computer Systems and Applications, Dubai/ Sharjah, United Arab Emirates, March 8-11, 2006.

I. Damaj, S. Hamadeh, and H. Diab, "Efficient Tiny Hardware Cipher under Verilog," High Performance Computing and Simulation Conference, as a part of the 22nd EUROPEAN Conference on Modelling and Simulation, Nicosia, Cyprus, June 3 - 5 2008.

I. Damaj, "Synthesizing The F8 Cryptographic Algorithm for Programmable Devices," The Fourth IASTED International Conference on Advances in Computer Science and Technology, Langkawi, Malaysia, April 2-4, 2008.

S. Kasbah, and **I. Damaj**, "Accurate High-Performance Multigrid Solvers in Reconfigurable Hardware," The International Conference of Applied and Engineering Mathematics, London, United Kingdom, July 2-4, 2007. *Nominated for Best Paper Award.*

S. Kasbah, and **I. Damaj**, "The Jacobi Method in Reconfigurable Hardware," The International Conference of Applied and Engineering Mathematics, London, United Kingdom, July 2 - 4, 2007.

I. Damaj, "Parallel On-chip Ciphers Development for the Third Generation Mobile Telecommunication System," The Third IASTED International Conference on Advances in Computer Science and Technology, Phuket, Thailand, April 2 - 4, 2007.

S. Kasbah, R. Haraty, and **I. Damaj**, "The Successive Over-Relaxation Method in Reconfigurable Hardware," The IAENG International Workshop on Computer Science, Hong Kong, China, March 21 - 23, 2007.

L. Hamandi, **I. Damaj**, R. Zantout, and A. Ghassoum, "Parallelizing Arabic Morphological Analysis Towards Faster Natural Language Processing Systems," Third International Conference on Current Issues in Business and Information Technology, Beirut, Lebanon, May 2006.

A. Maarouf, and **I. Damaj**, "High Speed Hardware Implementation of a Heuristic 2D Rectangle Placement Algorithm," ACS/IEEE Int'l Conference on Computer Systems and Applications, Dubai/ Sharjah, United Arab Emirates, March 8 - 11, 2006.

I. Damaj, "Reconfigurable Hardware Synthesis of the Serpent Cryptographic Algorithm," International Conference on Research Trends in Science and Technology RTST, Beirut & Byblos, Lebanon March 7 - 9, 2005.

A. Abdallah, and **I. Damaj**, "Reconfigurable Hardware Synthesis of The IDEA Cryptographic Algorithm," Proceedings of Communicating Process Architectures 2004, IOS Press, Oxford, United Kingdom, September 5 -8, 2004.

S. Majzoub, and **H. Diab**, "Instruction-Set extension for cryptographic applications on reconfigurable platform," The 6th International Workshop, System-on-Chip for Real-Time Applications (IWSoc), Cairo, Egypt, December 27-29, 2006.

S. Majzoub, R. Saleh, and **H. Diab**, "Reconfigurable platform evaluation through application mapping and performance analysis," The 6th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'2006), Vancouver, Canada, August 27-30, 2006.

M. Ohannessian, G. Choueiter, and **H. Diab**, "A novel parallel architecture for local histogram equalization," Visual Communications & Image Processing (VCIP'2005), Beijing, China, July 12-15, 2005.

Z. Itani, **H. Diab**, and H. Artail, "Efficient pull based replication and synchronization for mobile databases," IEEE International Conference on Pervasive Services (ICPS'2005), Santorini, Greece, July 11-14, 2005.

Z. Itani, **H. Diab**, and H. Artail, "Optimistic pull based replication for mobile databases," IEEE International Conference on Wireless Networks, Communications, and Mobile Computing (WirelessCom 2005), International Symposium on Mobile Database Access and Design, Maui, Hawaii, USA, June 13-16, 2005.

M. Itani, and **H. Diab**, "Reconfigurable computing for RC6 cryptography," 2004 ACS/IEEE International Conference on Pervasive Services (ICPS'2004), pp: 121-127, American University of Beirut, Beirut, Lebanon, July 19-23, 2004.

H. Diab, and M. Itani, "MARS cryptography on dynamic reconfigurable systems," Applied Simulation and Modelling (ASM 2004) International Conference, pp: 433-438, Rhodes, Greece, June 28-30, 2004.

H. Diab, and M. Al-Khalidy, "Performance Evaluation of IPv6 Routing on RC Systems," Applied Simulation and Modelling (ASM 2004) International Conference, pp: 481-483, Rhodes, Greece, June 28-30, 2004.

M. Al-Khalidy, **H. Diab**, and S. Majzoub, "MorphoSys implementation of MD5 hash algorithm," International Conference on Current Issues in Business and Information Technology, Beirut, Lebanon, May 21-22, 2004.

M. Al-Khalidy, and **H. Diab**, "Performance Evaluation Reed-Muller on Morphosys," International Conference on Current Issues in Business and Information Technology, Beirut, Lebanon, May 21-22, 2004.

M. Itani, and **H. Diab**, "Serpent cryptography on reconfigurable hardware," International Conference on Current Issues in Business and Information Technology, Beirut, Lebanon, May 21-22, 2004.

M. F. Khodr, and E. Girgis, at IEEE Laser & Opto-Electric Society Conference, Oregon, July 2007.

M. F. Khodr, R. Akkari, and R. Abi Hanna, at the International Workshop on Nanostructures, Turkey, June 2006

K. Ramasamy, B. Balakrishnan and M. U. Siddiqi, "Unequal Power Allocation for the Proposed Asymmetric Turbo Code for 3G systems", Proceedings of World Academy of Science, Engineering and Technology, Rome, Italy, April 25 - 27, 2008.

M. Yousoof, M. Sapiyan, and **K. Ramasamy**, "A Proposed framework to manage Cognitive load in Program learning", Proceedings of the 7th International Conference on Artificial Intelligence, Knowledge Engineering and Databases", University of Cambridge, UK, February 20-22, 2008.

K. Ramasamy, M. Shabiul Islam, M. Zaman, and M. Othman, "Development of Progressive and Parallel Image Transmission Scheme based on Block Truncating Coding (BTC)", Proceedings of International Conference on Robotics, Vision, Information & Signal Processing (ROVISP 2007), Penang, Malaysia, November 28-30, 2007.

K. Ramasamy, Md. Shabiul Islam, M. Zaman, A. Joshi, and M. Othman, "Measurement of Height and Distance of a Moving Object Using Microcontroller for Security System", Proceedings of International Conference on Robotics, Vision, Information and Signal Processing (ROVISP07), Penang, Malaysia, November 28-30, 2007.

K. Ramasamy, and M. U. Siddiqi, "Performance Characteristics of Turbo Product Code with Reed Muller Component Codes", Proceedings of International Conference on Robotics, Vision, Information & Signal Processing (ROVISP 2005), Penang, Malaysia, July 20-22, 2005.

K. Ramasamy, and M.U. Siddiqi, "Error Control to JPEG Image Transmission using Turbo Hamming Codes", Proceedings of International Conference on Robotics,

Vision, Information & Signal Processing (ROVISP 2005), Penang, Malaysia, July 20-22, 2005.

K. Ramasamy, and G. Ramasamy “Multilevel DC Chopper for Current Ripple Minimization: Experimental and Simulation Evaluation”, Proceedings of International Conference on Robotics, Vision, Information & Signal Processing (ROVISP 2005), Penang, Malaysia, July 20-22, 2005.

Invited Papers

F. B. Chaaban, “Impacts of Transport on Air Quality, Case Study from Lebanon”, UNEP/ACFA Policy Development Meeting on Clean Fuels and Vehicles in the Middle East and North Africa, Manamah, March 12-13, 2008.

F. B. Chaaban, “Technology Needs Assessment and Technology Transfer, The Lebanese Case”, Conference on Governance of Productive Systems and Networks in the Euro- Mediterranean Area; Transport, Energy, and Telecommunications, Center for Administrative Innovation in the Euro- Mediterranean Region, (CAIMED), Naples, Italy, October 26-27, 2006.

F. B. Chaaban, “Unleaded and Sulfur- free Transport Sector in Lebanon”, UNEP/ACFA Policy Development Meeting on Clean Fuels and Vehicles in the Middle East and North Africa, Cairo, May 24-25, 2006.

F. B. Chaaban, “Towards Unleaded and Sulfur- free Transport Sector in Lebanon”, ESCWA Seminar on Clean Fuels and Vehicles in Western Asia and North Africa, Beirut, Lebanon, March 17-19, 2004.

Meetings, Symposia, Workshops and Other Activities

F. B. Chaaban, “Energy- efficiency in the Industrial Sector, and Recycling”, 6th Dhofar Cultural Week, Dhofar University, Salalah, Oman, April 6, 2008.

F. B. Chaaban, “Impacts and Assessment of Magnetic Fields from Power Lines”, Order of Engineers, Beirut, Lebanon, May 8, 2006.

F. B. Chaaban, “Air Pollution, Climate Change, and Energy Sustainability”, Second Regional Training Workshop for Municipality Experts and Decision Makers on Environmental Management, Beirut, Lebanon, November 14-18, 2005.

F. B. Chaaban, “Industry and Clean Production; Role of Academic Institutions”, National Workshop on Clean Production, Lebanese Clean Production Center, Islamic University, Lebanon, October 4, 2004.

F. B. Chaaban, “Stewardship in Recycling”, National Workshop on Environmental Concerns, Lebanese International University, June 5, 2004.

F. B. Chaaban, “Regional Collaboration Workshop on Energy Efficiency and Renewable Energy Technology”, Workshop in collaboration with US State Department, and Lebanese Ministry of Energy and Water, AUB, Beirut, April 26 – 30, 2004.

S. Kasbah, **I. Damaj**, and R. Haraty, “Accurate High-Performance Multigrid Solvers in Reconfigurable Hardware,” SIAM International Conference on Computational Science and Engineering, Costa Mesa, California, USA, February 19 -23, 2007.

S. Kasbah, and **I. Damaj**, “Accurate High-Performance Multigrid Solvers in Reconfigurable Hardware,” 17th International Conference on Domain Decomposition Methods, Strobl,, Austria, 3-7 July 2006. Published in Domain Decomposition Methods in Science and Engineering XVI Series: Lecture Notes in Computational Science and Engineering (LNCSE), Vol. 55, October, 2006.

W. El- Ghazzawi, R. Saraeb, and **I. Damaj**, “Hardware Development of the Extended Tiny Encryption Algorithm,” ACS/IEEE International Conference on Computer Systems and Applications, Dubai/ Sharjah, United Arab Emirates, March 8-11, 2006.

I. Damaj, “Building Self-confidence,” Workshop at Dhofar University, Personal and Career Guidance Program, Salalah, Sultanate of Oman, December 14, 2006.

I. Damaj, “Hardware Design and Chips Fabrication - a Measure of Decision Makers and Industry Leaders,” Workshop at Hariri Canadian University, College of Engineering, Electrical and Computer Engineering Department, Mishrif, Lebanon, April 27, 2006.

I. Damaj, “Handel-C as a backend compiler for synthesizing reconfigurable hardware from functional Specification,” an invited talk at Celoxica LTD, Abingdon, UK, February 25, 2005.

I. Damaj, “Synthesis of Massively Parallel Algorithms for Field Programmable Gate Arrays, with Applications from Cryptography,” Ph.D. Thesis Overview, BCS Formal Aspects of Security, Issue 3, pp9-59, London, UK, November 2004,.

I. Damaj, and A. E. Abdallah, “Synthesis of Massively Parallel Algorithms for Field Programmable Gate Arrays, with Applications from Cryptography,” in the 25 Years of CSP Event, London, UK, July 7-8, 2004.

K. Ramasamy, M. U. Siddiqi and M. Y. Alias, “Asymmetric Turbo Code for Enhanced Performance of JPEG Coded Image Transmission over 3G Systems” – *Awarded Silver Medal in KERIE 2006, Faculty of Engineering, International Islamic University, Malaysia, December 5-6, 2006.*

Research Work in Progress

I. Damaj, Performance Evaluation of Reconfigurable Computer Architectures with Applications from Cryptography, (URB Seed Grant).

This project investigates parallel reconfigurable hardware implementations of cryptographic algorithms. Currently, the use of cryptographic algorithms within critical application, such as banking, communications, and military, requires efficient and highly reliable hardware implementations. The project phase proposed for the seed grant investigates the effectiveness of implementing parallel versions of the Serpent cryptographic algorithms using modern reconfigurable systems. The used systems are the MorphoSys dynamically reconfigurable computer and The RC-2000 FPGA-based reconfigurable system. Different hardware designs for the Serpent will be developed corresponding to different degrees of parallelism. Moreover, a performance analysis and evaluation of implemented designs will be included.

Department of Graphic Design and Interior Architecture

Exhibitions

M. Abduljabbar, "Dhofar University Faculty Group Exhibition," Group Exhibition, Dhofar University, College of Engineering Gallery, Salalah, Sultanate of Oman, June 4 - 16, 2008.

K. Adam, "Dhofar University Faculty Group Exhibition," Group Exhibition, Dhofar University, College of Engineering Gallery, Salalah, Sultanate of Oman, June 4 -16, 2008.

J. Almasude, "Semiotics of Identity, Morocco to Oman", Solo Exhibition, Salalah Hilton Resort Gallery, Salalah, Sultanate of Oman, May 28 - June 20, 2008.

J. Almasude, "Dhofar University Faculty Group Exhibition," Group Exhibition, Dhofar University, College of Engineering Gallery, Salalah, Sultanate of Oman, June 4- 16, 2008.

J. Almasude, "JoAnna Almasude", Solo Exhibition, Ministry of Culture Hall, Nador, Morocco, December 26, 2006 - January 26, 2007.

J. Almasude, "Art Institute of Pittsburgh Faculty Exhibition" Juried Group Exhibition, Art Institute of Pittsburgh Gallery, Pittsburgh, PA, U.S.A. February 16 - March 24, 2006.

J. Almasude, "Gallery on the Mall". Juried Group Exhibition, The Mall at Robinson Pittsburgh, PA, U.S.A., April - June 2006

J. Almasude, “JoAnna Almasude”, Solo Exhibition, OIT Gallery, Francis Marion University, Florence, SC, U.S.A., January 7- April 30, 2004.

M. El-Din, “Dhofar University Faculty Group Exhibition”, Group Exhibition, Dhofar University, College of Engineering Gallery, Salalah, Sultanate of Oman, June 4-16, 2008.

M. El-Din, “Magdi El-Din” Solo Exhibition, Omani Society of Fine Arts, Muscat, Oman, May 25 - 28, 2008.

M. El-Din, “Magdi El-Din”, Solo Exhibition, Center for Culture and Heritage, Salalah, Oman, 2006.

Abstracts, Workshops, and Other Activities

K. Adam, “The pharos of Alexandria”, An interactive CD project for Alexandria biblotique about Hermann Tiersch reconstruction of the pharos. This project is a digit documentation of the Pharos, 2004 to 2006.

K. Adam, “Alexandria Planetarium movie named " the sky of Alexandria", projection of an image displayed through 3 projectors over a spherical dome, 2004 to 2006.

K. Adam, “ACE Qatar ,Qatar charitable office, Kabol airport VIP lounge renovation contest”, *First prize*, 2006.

K. Adam, “Marine forces RADAR interactive 3D Visualization”, 2005.

K. Adam, “Alexandria Marathon course” 3D Visualization, 2005.

K. Adam, “A 3D simulation about harbor contamination for the UN”, 2005.

K. Adam, “Toronto Architectural Coptic village contest presentation”, certificate of merit. 2005.

K. Adam, “Alsoq alfaransawy digital documentation and 3d visualization”. A Master's degree case study about virtual heritage, 2004.

J. Almasude, “Introduction to Dreamweaver 8”. Invited Presenter, Regional Conference; EdTech Fall 2006 Techno Safari, Myrtle Beach Convention Center, Myrtle Beach, SC, U.S.A., October 2006.

J. Almasude, “Introduction to Flash Animation”, Invited lecture, Three Day

Workshop, Francis Marion University, Florence, SC. U.S.A, April 2004.

Department of Mechanical Engineering

Papers in Refereed International Journals

G. Milton, **Y. Gharbia**, and J. Katupitiya “Mechanical fabrication of precision microlenses on optical fiber endfaces,” *Optical Engineering Journal*, Vol. 44, Issue 12, December 2005.

Y. Gharbia, and J. Katupitiya, “Experimental Determination of Optimum Parameters for Grinding of Optical Fiber Endfaces,” *International Journal of Machine Tools and Manufacture*, Vol. 44, Issues 7-8, pp: 725-731, June 2004.

N. Nawayseh and M. J. Griffin “Effect of frequency, magnitude and direction of translational and rotational oscillation on the postural stability of standing people”, *Journal of Sound and Vibration*, Vol. 298, pp: 725-754, 2006.

N. Nawayseh and M. J. Griffin “Tri-axial forces at the seat and backrest during whole-body fore-and-aft vibration”, *Journal of Sound and Vibration*, Vol. 281, pp: 921-942, 2005.

N. Nawayseh and M. J. Griffin “Non-linear dual-axis biodynamic response to fore-and-aft whole-body vibration”, *Journal of Sound and Vibration*, Vol. 282, pp: 831-862, 2005.

N. Nawayseh and M. J. Griffin “Effect of seat surface angle on forces at the seat surface during whole-body vertical vibration”, *Journal of Sound and Vibration*, Vol. 284, pp: 613 -634, 2005.

N. Nawayseh and M. J. Griffin “Tri-axial forces at the seat and backrest during whole-body vertical vibration”, *Journal of Sound and Vibration*, Vol. 277, pp: 309-326, 2004.

Refereed Conference Papers and Presentations

Y. Gharbia, M. Gareth M., and J. Katupitiya, “Nano-grinding of micro profiles and microlenses on optical fibers endfaces for use in optical-fiber sensors”, *Third European Conference on Optical Fibre Sensors*, Napoli Italy, July 4-6, 2007.

G. Milton, **Y. Gharbia**, and J. Katupitiya “Automated Precision Centering of Optical Fibers for Nano-grinding”, *3rd IFAC Symposium on Mechatronic Systems*, Sydney, Australia, September 6-8, 2004,

G. Milton, **Y. Gharbia**, and J. Katupitiya “Mechanical fabrication of precision microlenses on optical fibre endfaces,” Current Development in Lens Design and Optical Engineering; The International Society of Optical Engineering, Vol. 5523, pp: 311-320, 2004.

G. Milton, **Y. Gharbia**, and J. Katupitiya “Vision Based Ultra-precision Centering of Optical Fibers for Micro Lens Fabrication”, IEEE/RSJ International Conference on Intelligent Robots and Systems, Sendai, Japan, September 28 - October 2, 2004.

N. Nawayseh, “Absorbed power at the seat, backrest and feet of subjects exposed to whole-body vertical vibration”, 40th United Kingdom Conference on Human Response to Vibration, Liverpool, England, September 13-15, 2005.

N. Nawayseh and M. J. Griffin, “Effect of frequency, magnitude and direction of translational and rotational oscillation on the postural stability of standing people”, 3rd International Conference on Whole-body Vibration Injuries, Palais des Congres - Nancy, France, June 7-9, 2005.

N. Nawayseh, “Forces on the seat and backrest during fore-and-aft whole-body vibration: effect of foot support and vibration magnitude”, United Kingdom Group Meeting on Human Responses to Vibration, Ludlow, Shropshire, England, September 15-17, 2004.

F. M. J. Nickols, “Efficient Inverse Kinematics Computation of 3D of Robot Leg Displacement using, 2 and 3-Variable, Integer Power Series Equations”, Third Humanoid, Nanotechnology, Information Technology, Communication and Control Environment and Management (HNICEM) International Conference, Manila, Philippines, March 15-18, 2007.

F. M. J. Nickols, “Emergent Behaviour Real-time Programming of a Six-Legged Omni-Directional Mobile Robot: Strategy of Viennese Waltz Behaviour”, 9th International Conference on Automation Robotics Control & Vision, Singapore. Nanyang Technological University, December 6-8, 2006.

F. M. J. Nickols, “Emergent Behaviour Real-time Programming of a Six-Legged Omni-Directional Robot: Planning Viennese Waltz Behaviour”, The 13th Annual Conference on Mechatronics and Machine Vision in Practice, University of Southern Queensland, Toowoomba, Australia, December 5-7, 2006.

Foundation Program

English Language Unit

Refereed Conference Papers and Presentations

K. Khan, “Implications of Culture Dominated ELT in the Asian Context,” English and Empowerment in the Developing World, Agha Khan University, Karachi, Pakistan, June 9-10, 2007.

K. Khan, “Self-Assessment and Learner Autonomy,” ELT in Pakistan, University of Modern Languages, Islamabad, Pakistan, December 13-15, 2006.

K. Khan, and N.V. Mahija, “Portfolios and Learner Self-Assessment,” English Language Education Policies: Responding to National and Global Challenges, 54th TEFLIN International Conference, Salatiga, Indonesia, December 5-7, 2006.

V. Mahija, and R. Devi, “Fact and Fiction in the Classroom,” Integration of Skills: Creative methods and techniques in ELT, 8th Annual ELT Conference, Sultan Qaboos University, Muscat, Sultanate of Oman, April 23-24, 2008.

V. Mahija, and K. Khan, “Portfolios and Learner Self-Assessment,” English Language Education Policies: Responding to National and Global Challenges, 54th TEFLIN International Conference, Salatiga, Indonesia, December 5-7, 2006.

Abstracts, Workshops, and Other Activities

K. Khan, “Asianizing English or Anglicizing (Americanizing) Asia? Implications of Globalization and Culture Dominated ELT in the Asian Context,” (Proposal Accepted) Globalizing Asia: The Role of ELT, ASIATEFL 6th International Conference, Bali, Indonesia, August 1-3, 2008.

A. Lajinian-Magarian, “Classroom Management,” Teacher Training Seminar for Highgate Secondary School, Nicosia, Cyprus, June 19-20, 2006.

Mathematics and IT Unit

Articles in Academic Journals

K. Kamaluddin, and **M. Yousoof**, “Dynamic Bandwidth Reservation for Multimedia Handover Calls in Wireless Mobile Cellular Networks”, Journal of WSEAS Transactions On Communications, Issue 4, Vol. 6, pp: 532 - 538, April 2007.

M. Yousoof, M. Sapiyan, and K. Kamaludin, “Measuring Cognitive Load - A Solution to ease Learning of Programming,” Journal of Applied Mathematics and Computer Sciences, Issue 2, Vol. 4, pp: 718-722, April 2007.

Refereed Conference Papers and Presentations

M. Yousoof, M. Sapiyan, and K. Ramasamy, “Proposed Framework for Managing Cognitive Load in computer program learning”, Proceedings of the 7th WSEAS International Conference on a AI, Knowledge Engineering and Databases (AIKED 08), Cambridge, UK, February 2008.

M. Yousoof, M. Sapiyan, and K. Kamaluddin, “Measuring Cognitive Load – A solution to Ease of Learning of Programming”, Proceedings of the 20th International Conference on Computer, Systems and Engineering (CESSE 07), Barcelona, Spain, April 2007.

K. Kamaluddin, and **M. Yousoof**, “Dynamic Bandwidth Reservation for Multimedia and Data Applications in Mobile Wireless Cellular Networks,” Proceedings of 6th WSEAS International Conference on Electronics, Hardware, Wireless and Optical Communications (EHAC 07), Corfu Island, Greece, February 16-19, pp: 151 -155, 2007.

M. Yousoof, M. Sapiyan, and K. Kamaluddin, “Cognitive overload in Programming-A Review,” Proceedings of the 11th International Conference of SHBIE, University Brunei Darussalam, Brunei, May 2006.

K. Kamaluddin, **M. Yousoofa**, Zabnoot, and A. Haleeb, “Congestion Control in ATM Cellular Networks,” Proceedings of International Conference of Computing, International Islamic University, Kuala Lumpur, Malaysia, May 2006.

K. Kamaluddin, and **M. Yousoof**, “Bandwidth Allocation for ABR Service in Cellular Networks,” Proceedings of the 12th International Conference of Computer Science, Vienna, Austria, March 2006.

M. Yousoof, M. Sapiyan, and K. Kamaluddin, "A Proposed Framework for Visualization to Teach Computer Science," Proceedings of the 12th International Conference of Computer Science, Vienna, Austria, March 2006.

M. Yousoof, M. Sapiyan, and K. Kamaluddin, "Reducing Cognitive Load in learning Computer Programming," Proceedings of the 12th International Conference of Computer Science, Vienna, Austria, March 2006.

K. Kamaluddin, and **M. Yousoof**, "Bandwidth allocation in mobile ATM Cellular Networks," Proceedings of the 12th International Conference of Computer Science, Vienna, Austria, March 2006.

M. Yousoof, M. Sapiyan, and K. Kamaluddin, "Enhancement of Learning Programming – A Better Approach," Proceedings International Conference on Knowledge Management, University Putra Malaysia, Kuala Lumpur, Malaysia, July 2005.

M. Yousoof, M. Sapiyan, and K. Kamaluddin, "Role and scope of Intelligent Tutoring Systems- A Case Based Approach," Proceedings International Conference on Knowledge Management, University Putra Malaysia, Kuala Lumpur, Malaysia, July 2005.

K. Kamaluddin, and **M. Yousoof**, "Routing in Mobile Wireless Networks for Multimedia Applications – Reuse of VCs," Proceedings of 3rd World Enformatika Conference, Istanbul, Turkey, April 2005.

K. Kamaluddin, and **M. Yousoof**, "Handing over mechanism in wireless networks- An innovative solution," Proceedings of the International Conference on Computer, Communication and Power, Sultan Qaboos University, Muscat, Oman, February 2005.

M. Yousoof, and M. Sapiyan, "Smart Learning- Myths and realities in today's Education Scenario," Proceedings of the International Conference of South East Asian Regional Computer Confederation (SEARCC 04), Kuala Lumpur, Malaysia, October 2004.

M. Yousoof, and M. Sapiyan, "Future of Visualization Techniques in Teaching Programming," Proceedings of the 17th Conference of Malaysian Technological Association, Penang, Malaysia, September 2004.

Abstracts, Workshops, and Other Activities

M. Yousoof, "A Solution to Ease Learning of Programming", (Presentation) CAAS, DU, May 21, 2007.

Research projects: (Conducted in DU)

M. Yousoof and M. Sapiyan, Computer Programming is considered as a difficult task. Many students face difficulties in learning computer programming. The main problem for the difficulty is cognitive load. This project was aimed to find out the difficulties in learning programming. It is aimed at developing a framework to monitor and measure the cognitive load, thereby reducing the difficulties of learning programming. Intelligent agents will be used in the framework. The framework will be built based on strong mathematical foundations.