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Iehab A. AL Rasan,Ph.D.

Teaching Experience

From 2007 **King Saud University** Riyadh, SA
Assistant Professor at Computer Science department

- Distributed Systems, Internet Technologies, Mobile Computing, Cloud Computing, Networking.

Work Experience and Consultation Services

2008-2014 Ministry of Commerce and Industry Riyadh, SA
Consultant for Consumer Price Index (CPI)

- Developing Consumer Price Index (CPI) system for the Kingdom of Saudi Arabia.
- Collecting, monitoring, and publishing prices for all consumer goods included in the CPI (27 cities in the kingdom of Saudi Arabia)
- Supervising a study about the change in the prices of consumer goods in the Kingdom of Saudi Arabia (Phase I and Phase II)

2012 Ministry of Water and Electricity Riyadh, SA
Consultant for designing IT infrastructure

- Designing, writing, and evaluating RFP for passive and active network components (IT infrastructure) for Riyadh branch.

2007-2012 The Saudi Fund for Development (SFD) Riyadh, SA
Consultant for designing E-government roadmap

- IT Strategy Planning for SFD
- Designing models and frameworks for the execution of e-Government programs and projects (ERP, BPM,DMS,WFS, ECM, and SFD Portal)
- Designing passive and active network components (IT infrastructure)
- Writing, reviewing, and evaluating RFPs for IT projects.

2004-2007 Ministry of Higher Education Riyadh, SA
Director-General of Computer and Information Technology

- E-Government Committee Chairman
- Supervising the implementation of Information Technology Strategic Plan
- Supervising the implementation of Enterprise Resource Planning (ERP)
- Supervising the implementation of Business Process Management (BPM)
- Supervising the implementation of Document Management System (DMS)
- Supervising the implementation of Workflow Management System (WFM)
- Supervising the implementation of Enterprise content management (ECM)
- Supervising the implementation of King Abdullah scholarship portal.

1998–2004 Saudi Cultural Mission Washington, DC
Director of Science and Technology Center

1996–1998 Ministry of Higher Education Riyadh, SA
Director of Computer and Information Center

1993–1996 General Organization for Social Insurance Riyadh, SA
Data Base Administrator (DBA)

1988–1991 General Organization for Social Insurance Riyadh, SA
Application Programmer

Education

1998–2004 The George Washington University Washington, DC
Ph.D , Computer Science, Software and Systems.

1991–1993 Fairleigh Dickinson University Teaneck, NJ
Master of Science, Computer Science.

1984–1988 King Faisal University ALAhsa, SA
Bachelor of Art , Computer Information Systems.

Honors

- Saudi Embassy – Cultural Mission Honors list, 1993.
- King Faisal University Honor list , 1988.

Teaching Interest

- Distributed Systems, Internet Technologies, Mobile Computing, Cloud Computing, Networking, C, C++, Pascal, Data Compression, Data Structure, Algorithms, Information Retrieval Systems, Software Engineering, and Handheld devices.

Published Papers

- Iehab Al Rassan, Haifa Alyahya , **Tagged-Sub Optimal Code (TSC) Compression for Improving Performance of Web Services** ,The 2015 International Conference on Soft Computing and Software Engineering (SCSE 2015), San Francisco, USA 5-6 March 2015.
- Iehab Al Rassan, Haifa Alyahya , **Improve XML Web Services' Performance Using SOAP Compression**, The 2014 International Conference on Semantic Web and Web Services (SWWS'14), Las Vegas, USA 21-24 July 2014.
- Iehab ALRassan and Hanan AlShaher , **Securing Mobile Cloud Computing Using Biometric Authentication (SMCBA)**, The 2014 International Conference on Computational Science and Computational Intelligence (CSCI'14), Las Vegas, USA, March 10-13, 2014
- IehabALRassan, HananAlShaher, **Securing Mobile Cloud Using Finger Print Authentication**, International Journal of Network Security & Its Applications (IJNSA), Vol.5, No.6, November 2013
DOI : 10.5121/ijnsa.2013.5604 41

- Iehab Alrassan, Maha Alrashed, **Enhancing Web Services Security in E-business**, International Journal of Soft Computing and Software Engineering (JSCSE) 2013, Vol. 3, No. 3, pp. 502-506, 2013, Doi: 10.7321/jscse.v3.n3.76
- Iehab Al Rassan and Mohannad A. Al Sheikh, **Securing Application in Mobile Computing**, International Journal of Information and Electronics Engineering (IJIEE) 2013 Vol.3(5): 544-547 ISSN: 2010-3719 , DOI: 10.7763/IJIEE.2013.V3.375
- Iehab ALRassan and Hanan AlShaher, **Improving the Security of Mobile Cloud using Biometric (ISMIBA)**, IADIS International Conference Information Systems, LISBON, PORTUGAL, 13-15 MARCH 2013 .
- Iehab Al-Rassan and Deema AL Shoaibi, **Mobile Advertising Using Location Based Services**, First IEEE International Conference on Internet Operating Systems and New Applications (ICIOS 2012), California, USA 10-12 December 2012.
- Iehab Al-Rassan and Naveed Khan, **An LBP based key management for secure cluster formation in Body Area Network (BAN)**, Archives Des Sciences Journal (ADS), Vol. 65, No. 9; Sep 2012.
- Iehab Al-Rassan and Naveed Khan, **Secure & Energy Efficient key Management Scheme for WBAN – A Hybrid Approach**, IJCSNS International Journal of Computer Science and Network Security, Vol. 11 No. 6 pp. 169-172 , 2011.
- Iehab Al-Rassan and Naveed Khan, **Survey: Security Measures and Associated Drawbacks of Wireless Body Area Network (WBAN)**, International Conference on Wireless Networks 2011 (ICWN'11), Las Vegas, USA 18-21 July 2011.
- Iehab Al Rassan, Jacob Adeniyi and Maher Al Sheikh, **Improving the Performance of Web Services in Mobile Computing**, IADIS International Conference Information Systems 2011 , Avila, Spain, 11 - 13 March 2011.
- Iehab Alrassan and Mohannad Al Sheikh, **Securing Applications in Mobile Computing**, International Conference on Communication and Electronics Information, ICCEI 2011, Haikou, China , 22-24 February 2011.
- Iehab Al-Rassan and Arwa Al-Hussain , **A Biometric-Based Authentication System for Web Services Mobile User**, The 8th International Conference on Advances in Mobile Computing & Multimedia (MoMM2010) Paris, France, 8-10 November 2010.
- Iehab Al-Rassan and Mansour Alwaily, **Securing Web Service for Handheld Devices (SWSHD)**, International Conference on Semantic Web and Web Services 2010 (SWWS'10), Las Vegas, USA 12-15 July 2010.
- Iehab Al-Rassan and Arwa Al-Hussain , **Using Iris Encryption Authentication in Mobile Web Services**, IADIS International Conference Information Systems 2010 , Porto, Portugal, 18 to 20 March 2010.
- Iehab Al-Rassan and Anas Assiri, **Optimizing Web Services for Mobile**

Devices Using Tagged-Sub Optimal Code (TSC), The 7th International Conference on Advances in Mobile Computing & Multimedia @WAS Emerging Research Projects, Applications and Services (ERPAS), Kuala Lumpur, 14 - 16 December 2009.

- Iehab Al-Rassan and Anas Assiri, **Optimizing Web Services Using Tagged-Sub Optimal Code Text Compression**, IADIS International Conference Information Systems 2009 , Barcelona, 25 - 27 February 2009.

• د. ايهاب الرسن ، الجيل الرابع من الخدمات الإلكترونية : الحكومة النقالة **M-Government** والتجارة النقالة **M-Commerce**، مؤتمر تقنية المعلومات والأمن الوطني الذي نظمته الاستخبارات العامة ، الرياض من ١-٤/١٢/٢٠٠٧م

- Iehab AL Rassan, Abdulmalik AL-Salman, AbdulRhman Al-Khnaifer, **SMS-SMTP Gateway For Mobile Messaging**, Fifth International Conference on Advances in Mobile Computing and Multimedia (MoMM2007). Jakarta , 3-5 December, 2007.
- د. ايهاب الرسن ، نحو تعاملات إلكترونية آمنة بجودة عالية، المؤتمر الوطني الأول للتعاملات الإلكترونية الذي نظمته وزارة الاتصالات وتقنية المعلومات ووزارة المالية وهيئة الاتصالات وتقنية المعلومات، الرياض، السعودية، خلال الفترة من ١٤ إلى ١٧ يناير ٢٠٠٧ .
- Bellaachia, I. AL Rassan, **Speeding Up String Matching Over Compressed Text On Handheld Devices using Tagged Sub-optimal Code (TSC)**, International Journal of Time-Critical Computing Systems, Real-Time Systems. Springer US, 2005.
- Bellaachia, I. AL Rassan. **Efficiency of Prefix and Non-Prefix codes in String Matching over Compressed Databases on Handheld Devices**, SAC 2005 : ACM Symposium on Applied Computing, Santa Fe, New Mexico, March 13 -17, 2005.
- Bellaachia, I. AL Rassan. **Speeding Up String Matching Over Compressed Text On Handheld Devices using Tagged Sub-optimal Code (TSC)**, RTAS 2004 : IEEE Real-Time and Embedded Technology and Applications Symposium, Toronto, Canada, May 25 - May 28, 2004.
- Bellaachia, I. AL Rassan . **Fast Searching Over Compressed Text Using a New Coding Technique: Tagged Sub-optimal Code (TSC)**. DCC 2004: IEEE Data Compression Conference, Snowbird, Utah, March 23 - 25, 2004.
- Bellaachia, I. AL Rassan . **String Matching over Compressed Text on Handheld Devices**. Proceeding of the International Conference on Embedded Systems and Applications ESA 03, Pages: 80 –86, June 2003.