

Ammar (*Elhassan*) Al Rashdan (*Ph.D., MCTS*) a.elhassan@psut.edu.jo

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Nationality: Jordan / UK **Date of Birth:** 10 June 1968

HIGHLIGHTS

- Academic Administration Leadership at Department and College levels.
- Saudi-NCAAA Academic Accreditation External Reviewer
- ABET Accreditation – several programs completed successfully with vision, plan, process, team leadership and data management
- Applied research in designing and implementing data mining and machine learning systems to address academic attainment shortcomings
- Curriculum design and deployment at Diploma, BSc and MSc levels
- Very keen on Sustainable Development with active participation in EU EOSD - International Greening Event

EDUCATION

2000

Ph.D. Computer Science

University of Surrey UK (top 10 in UK)

Object Oriented Systems – Behavioural Modelling of Complex Reactive Systems

1991

MSc Information Systems

University of East Anglia UK

Database Performance Optimisation – Ingres SQL

1989

BSc Computer Science

Yarmouk University Jordan

Programming Languages, Database Systems, Operating Systems, Operations Research, Maths, Stats, English

PROFESSIONAL CERTIFICATION

2013

QAA/NCAAA External Reviewer Training

2007

MCP .Net Windows Applications with C#

2012

NCAAA Self Study Reports

1998

Advanced Client Server Applications

2008

MCTS .Net Windows Applications with C#

1997

Reporting Techniques in Crystal – Training

AFFILIATION

- International Association of Engineers (IAENG)
- British Computer Society (BCS)
- IEEE
- The Society of Digital Information and Wireless Communications (SDIWC)

CAREER

Sep '18 – Date

Princess Sumaya University for Technology, Jordan
King Hussein School of Computing Sciences
Department of Computer Science

Sep '17 – June '18

Ajman University, UAE
College of Information Technology

Aug '13 – June '17

Prince Mohammad Bin Fahd University, Saudi Arabia pmu.edu.sa
Acting Dean – College of Computer Engineering & Science

Sep '09 – June '13

Prince Mohammad Bin Fahd University, Saudi Arabia pmu.edu.sa
Assistant Prof and Chair - IT
College of Computer Engineering & Science

Feb '08 – July 2009

University of Hail, Saudi Arabia uoh.edu.sa
Assistant Prof
Department of Computer Science and Software Engineering

1998 – 2008

Pulse Software Systems Ltd UK pulsesoftware.co.uk
Senior Analyst Programmer

1997 – 1998

Fidelity Investments – UK fidelity.com
Programmer/Developer

1994 – 1997

MIS, University of Surrey UK surrey.ac.uk
Analyst Programmer

1992 – 1994

Research Services Office, University of Surrey UK surrey.ac.uk
Analyst Programmer

RESEARCH

Areas include Operations Research/Optimization, AI, Machine Learning, Assistive Technology, Bio-Informatics & VHDL designs for human/animal hormone functions simulation.

Journals

1- JM Alghazo, G Latif, L Alzubaidi, **A Elhassan** “Multi-Language Handwritten Digits Recognition based on Novel Structural Features”, Journal of Imaging Science and Technology March 2019, 63 (2), 20502-1-20502-10

2 - **A. Elhassan**, I. Jenhani, G. Ben Brahim. “Remedial Actions Recommendation via multi-Label Classification: A Course Learning Improvement Method”. International Journal of Machine Learning and Computing, Vol. 8, No. 6, December 2018. doi: 10.18178/ijmlc.2018.8.6.749.

3 – J. Ghazo, O. Ouda, **A. Elhassan**. “E-waste Environmental and Information Security Threat: GCC Countries vulnerabilities” Jan 2018, Euro-Mediterr J Environ Integr (2018) 3: 13.
<https://doi.org/10.1007/s41207-018-0050-4>

4 - J. Al Ghazo, G. Latif, R. Hmouz, **A. Elhassan**, L. AlZubaidi. “An Online Numeral Recognition System Using Improved Structural Features – A Unified Method for Handwritten Arabic and Persian Numerals”, Journal of Telecommunication, Electronic & Computer Engineering (JTEC) - Special Issue (CITA`17)

5 – J M. Alghazo, G Latif, **A. Elhassan**, L Alzubaidi. “Multi-Language Handwritten Digit Recognition based on Novel Structural Features and Random Forest”, International Journal of Machine Learning and Cybernetics *Submitted*, May 2017

6 - Huseyin M. Cekirge, Omar K. M. Ouda, **Ammar Elhassan**, “A Method for Preparing Environmental Social Impact Assessment (ESIA) of Crude Oil and Gas Pipelines”, International Journal of Environmental Monitoring and Analysis May 2015, Vol. 3, No. 3, 2015, pp. 154-161. doi: 10.11648/j.ijema.20150303.17

7 - H. M. Cekirge, **A. Elhassan**, O. K. M. Ouda, “A Comparison of Solar Power Systems (CSP): Solar Tower (ST) Systems versus Parabolic Trough (PT) Systems”, American Journal of Energy Engineering Volume 3, Issue 3, May 2015, Pages: 29-36

8 - Huseyin M. Cekirge, **Ammar Elhassan**, Omar K. M. Ouda, “QUANTITATIVE RISK ASSESSMENT FOR CRUDE OIL PIPELINES”, International Journal of Environmental Monitoring and Analysis, April 30, 2015 <http://www.sciencepublishinggroup.com/j/ijema>, Vol. 3, No. 3, 2015, pp. 147-153. doi: 10.11648/j.ijema.20150303.16

9 - Huseyin M. Cekirge, Omar K. M. Ouda, **Ammar Elhassan**, “Economic Analysis of Solid Waste Treatment Plants Using Pyrolysis”, American Journal of Energy Engineering. Vol. 3, No. 2, 2015, pp. 11-15. doi:10.11648/j.ajee.20150302.11, <http://www.sciencepublishinggroup.com/journal/paperinfo?journalid=168&>

10 - O. M. Khreis, **A. Elhassan**, “A coupled-mode theory analysis of intermixing in semiconductor distributed Bragg reflectors”, Optical and Quantum Electronics Volume 45, Issue 9, pp 937-946 Springer US Print ISSN 0306-8919 Online ISSN 1572-817X, 2013

11 – L. Alzubaidi L, **A. Elhassan** A, J. Al Ghazo, “Electrocardiogram based methodology for computing of Coronary Sinus Pressure”, International Journal of Computer Science 2011, IJCSI 2011; ISSN: 1694-0814 Vol. 8, Issue 3, pp.382-386;

Conferences

1 - Reham Saeed, Rawan Ghnemmat, Ghassen Benbrahim, **Ammar. Elhassan**

"Learning with Dynamic Architectures for Artificial Neural Networks - Adaptive Batch Size Approach"

Accepted

THE 2nd INTERNATIONAL CONFERENCE ON NEW TRENDS IN COMPUTING SCIENCES (ICTCS 2019), October 2019

2 - Islam Al Omari, Razan Al Omoush, Haneen Innab, **Ammar Elhassan**

"Visualizing Program Quality – A Topological Taxonomy of Features"

Accepted

THE 2nd INTERNATIONAL CONFERENCE ON NEW TRENDS IN COMPUTING SCIENCES (ICTCS 2019), October 2019

3 - Raed Abu Zitar and **Ammar Elhassan** "Deep Learning Recommendation System for Courses Learning Outcomes Assessment", Innovation Arabia 12, HBMSU, Feb-2019, UAE

4 – **A. Elhassan.**, L. Al Zubaidi, S. Al Huwaider (Student Research Project), "Scheduling with Divide and Conquer Genetics - A Model and Implementation", The 19th International Conference on Artificial Intelligence, (ICAI'17: July 17-20, 2017, Las Vegas, USA)

<http://americancse.org/events/csce2017/conferences/icai17>

5 – **A. Elhassan** & W.S. Elhassan. "Assessment instruments for accreditation: A data management system design & implementation", IEEE International Conference on Communication, Management and Information Technology ICCMIT, Warsaw, Poland. *Accepted* February 2017.

6 - I. Jenhani, G. Ben Brahim, **A. Elhassan**. "Course Learning Outcome Performance Improvement: A Remedial Action Classification Based Approach", 2016 15th IEEE International Conference on Machine Learning and Applications, Dec 18, 2016 - Dec 20, 2016, Los Angeles, USA October 2016

7 - **A. Elhassan**, R. Sinno, Z. Huneiti and S. Ahmed. "Assessing Functions and Competencies: A Model and System Implementation" 2015 IEEE 7th International Conference on Engineering Education (ICEED), Kanazawa, 2015, pp. 59-63. doi:10.1109/ICEED.2015.7451493

<http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=7451493&isnumber=7451473>

8 -Prince Sultan bin AbdelAziz College for the Blind – A New Technology Driven Vision

A. Elhassan, 2nd Int. Conference on ICT: Serving Disabilities and Learning Difficulties (ICDD2014)

19-21 May 2014 - State of Kuwait <http://www.redsoft.org/icdd2014/panel.html>

9 - **A. Elhassan**, "Greening Education: An Example from Saudi Arabia", EOSD - International Greening Event - Karlsruhe Germany November 2013, <http://eosd.org/en/igee2013/welcome.html>

10 – **A. Elhassan**, "Graph-Coloring for Course Scheduling to Time-Room Sots - A Comparative Analysis Based on Course Selection Order", The Third International Conference on e-Technologies and Networks for Development (ICeND2014), Lebanese University - Beirut, April 29, to May 1 2014

11 – Y Ansari, **A Elhassan**, A S. A Kazim. "Predictive Data Mining and Pattern Recognition in the Medical Sector: Implementation and Experience", WCCAIS'2014 IEEE World Congress On Computer Applications and Information Systems, 17-19 Jan 2014, Tunisia

12 – L Alzubaidi, **A Elhassan**, J Alghazo, "Enhancing Computer Accessibility for Disabled Users – A Kinect Based Approach for Users with Motor Skills Disorder", IEEE NOORIC 1435/2013 Taibah University International Conference on Advances in Information Technology for the Holy Quran and Its Sciences

13 - L. Alzubaidi L, **A. Elhassan**, “Data Structures Learning - A Visually Assisted Approach”, International Conference on Computer Graphics & Virtual Reality CGVR'13 conference (Las Vegas) Las Vegas July 22-25 '13

14 – L. Alzubaidi L., **A. Elhassan**, J. Alghazo, “Enhancing Computer Accessibility for Disabled Users – A Kinect Based Approach for Users with Motor Skills Disorder”, IEEE International Conference on Advances in Information Technology for the Holy Quran and Its Sciences, 19-22 Safar 1435 Hijri (22-25 December 2013) Taybah University, Al-Madinah Al-Munawwarah, Saudi Arabia

15 – L. Alzubaidi, **A. Elhassan**, J. Al Ghazo. “Automatic Service and Protection Path Computation - A Multiplexing Approach” The 2012 International Conference on Internet Computing (ICOMP 2012), Las Vegas July 16-19 '12

16 - **A. Elhassan**, L. Alzubaidi and J. Al Ghazo. “Modeling and Synthesis of Human Insulin Secretion Mechanism Using CAD”, Proceedings of The International Multi-Conference of Engineers and Computer Scientists 2012 (IMECS 2012), pp117-122
Conference proceeding published by IAENG

17 - L. Alzubaidi L, **A. Elhassan**, J. Al Ghazo. “Computation of Coronary Sinus Pressure Using Pattern Recognition Techniques”, International Conference on Bioinformatics and Computational Biology BIOCOMP 2011 - Las Vegas

Book Chapters

Human Bio Functions as FPGAs Chip Design - An Insulin Perspective

A. Elhassan, L. Alzubaidi L. and J. Al Ghazo

IAENG Transactions on Electrical Engineering, Volume 1

Special Issue of the International MultiConference of Engineers and Computer Scientists 2012 Hong Kong, 14 – 16 March 2012, Edited by:

Sio-Jong Ao (International Association of Engineers, Hong Kong), Alan Hoi-shou Chan (City University of Hong Kong, Hong Kong), Hideki Katagiri (Hiroshima University, Japan), Li Xu (Zhejiang University, China)
World Scientific ISBN 978-981-4439-07-7, pp.288-300

Funded Research

Intelligent Deep Learning Recommendation System Based on ADAMS's Course Learning Outcomes Assessment, internal research grant at Ajman University, 2018. PI: Prof. Raed Abu Zitar CI #1: Dr. A. Elhassan

Teaching the Holy Quran to Disabled Users. This is a research project funded by Taibah University “Noor Foundation” for Quran and Hadith studies. The main aim of this project is to design a suite of Hands-free Kinect Applications for educational purposes that allow users with disabilities to use a PC for learning the Holy Quran. This tool will support a hands-free operation mode for use by handicapped users. One year grant of SAR200k.

TEACHING

Technology

- Excellent familiarity with Rubrics design and implementation for Outcome based education, QA and Accreditation requirements.
- Design and deployment of Rubrics in LMS systems like Blackboard with analytics reporting
- Banner system familiarity in addition to numerous bespoke systems designed or used in KSA, UAE and Jordan

Subjects

- **Programing:** C, C++, C#
- **Data Engineering & Visualization** for Data Scientists with Excel, Oracle, Python, R & PowerBI
- **ERP (SAP)** - Principle of enterprise resource planning with SAP as a reference package.
- **Database Systems** – With exposure to the practical elements: SQL and Oracle
- **Software Engineering** – With UML implementation
- **Discrete Maths** Including propositional and predicate calculus, sets and functions, mathematical reasoning, recursion and relations.
- **Human Computer Interaction** Covers the design of interactive products/systems
- **Project Management** From a software engineering perspective, with a focus on software design and implementation, and software development project management.

Other – Coordination and Supervision

- Senior Design /Capstone/Assessment III
- Coop/Internship