

*Taisir M. Eldos, Ph.D.*

---

***Demographic***

---

Full Name: Taisir Mohammad Ahmed Eldos  
Place of Birth: Karak - Jordan  
Date of Birth: 30-06-1958  
Nationality: Jordanian  
Residence: Amman - Jordan



---

***Education***

---

1992 – 1996: Ph.D. Computer Engineering, University of Alabama in Huntsville, USA  
Dissertation “Techniques for Information Compaction”  
1991 – 1992: M.S. Computer Engineering, University of Alabama in Huntsville, USA  
1976 – 1981: B.S. Electronic Engineering, University of Menofia, Menof – Egypt  
Project “Radio Biotelemetry”

---

***Experience***

---

2008 – Now: Chairman (leave of absence)  
Department of Computer Engineering  
College of Computer Engineering and Sciences, Al Kharj  
King Saud University, in Saudi Arabia  
2000 – 2002: Chairman  
Department of Computer Engineering  
Jordan University of Science and Technology, Irbid - Jordan  
1996 – Now: Associate Professor  
Jordan University of Science and Technology, Irbid - Jordan  
1992 – 1996: Lecturer  
University of Alabama in Huntsville, Huntsville - Alabama, USA  
1991 – 1992: Research Assistant  
University of Alabama in Huntsville, Huntsville - Alabama, USA  
1989 – 1990: Director of Engineering  
Microsystems International, Atlanta - Georgia, USA  
Office Automation Systems: Small Hospitals, Clinics and Retail Stores  
1987 – 1989: Production Manager  
International Systems & Electronic Development Co., Amman - Jordan  
Design, Assembly, Test and Packaging of Microprocessor Based Solutions

- 1986 – 1987: Project Manager  
International Systems & Electronic Development Co., Amman - Jordan  
Reverse Engineering: Roadside Emergency Telephony
- 1985 – 1986: Project Manager  
International Systems & Electronic Development Co., Amman - Jordan  
Multiprocessor System Controller Design: Intelligent Elevator Systems
- 1983 – 1985: Design & Development Engineer  
International Systems & Electronic Development Co., Amman - Jordan  
Microprocessor Based Bilingual Solutions: Computers, Terminals and Printers
- 1981 – 1983: Course Author, Instructor and Laboratory Supervisor  
Jordanian Armed Forces - Signal Division, Amman – Jordan  
Logic and Communication Systems

---

### ***Languages***

---

- Native Arabic
- Fluent English

---

### ***Research Interest***

---

- Algorithms: Genetic Algorithms, Simulated Annealing Algorithms & Evolution Paradigms
- Design: Associative Processing & Algorithmically Specialized Engines
- Processing: Data Mining, Information Compaction, Neural Computing & Expert Systems

---

### ***Teaching Interest***

---

- Digital Logic Design
- Computer Organization and Design
- Computer Architecture
- Microprocessor Systems Design
- Embedded Systems and Interface Design
- Firmware Design
- Operating Systems
- Data Communications

---

### ***Skills***

---

- Low-Level Languages: Intel, Zilog and Motorola Assembly
- High-Level Languages: Parallel C and Matlab
- Rule-Based Languages: CLIPS
- CAD/CAM Systems: Various VLSI, Logic and PCB Design Tools
- Packages: Multimedia Authoring
- Productivity: Word-processing, Presentation, Spreadsheets and Graphics Editing

---

**Awards**

---

- Hisham Hijawi Prize for Applied Sciences, 2000
- National Dean's List 1993 - 1994, USA
- National Dean's List 1992 - 1993, USA
- Doctoral Scholarship, University of Alabama in Huntsville
- Doctoral Sponsorship, HKJ Government, Jordan University of Science and Technology
- Honor Degree 1980 -1981, Egypt

---

**Affiliations**

---

- Institute of Electrical & Electronic Engineers (IEEE)
- Computational Intelligence Society (CIS)
- Jordan Engineers Association (JEA)

---

**Positions**

---

- Member, University Council, 2003/2004
- Member, Faculty Council (Computer & Information Technology), 2001/2002
- Member, Faculty Council (Computer & Information Technology), 2000/2001
- Chairman, Department of Computer Engineering, 2001/2002
- Chairman, Department of Computer Engineering, 2000/2001
- Member, Faculty Council (Engineering), 1999/2000
- Liaison Officer, Y2K National Task Force, 1999/2000

---

**Extracurricular Activities**

---

- European Union joint projects: Mediterranean Virtual University (MVU), Content Provider
- Teaching with Technology: Multimedia Authoring Workshops for Professors, Provider
- Member of Task Force, e-University Project at Jordan University of Science and Technology
- Reviewer for Journals, Conferences and Book publishers
- External Examiner, student projects in other state universities
- Member of Steering Committee, Computer Information Center
- Member, Technical Information Committee, King Abdulla University Hospital
- Trainer, Tester & QA Officer, UNESCO ICDL program
- Computer training programs, Ministry of Education Teachers & Arab Army Retirees
- Workshops & Seminars: e-Commerce, Automated Software Testing Courseware Authoring

---

**Publications: Master Theses (Supervisor)**

---

1. Deadlock Detection and Resolution in Distributed Database Systems  
Ahed Al Shanyour, 1997
2. Digital Elevation Model Feature Extraction using Partially Compresses Data  
Wael Kayyali, 1998
3. A Novel Router Architecture for High Performance Multiprocessor Systems  
Nabeel Hasasneh, 2000

4. EDN Approach to Broadcast in Wormhole Routed 2D Mesh Multicomputer Networks  
Issa Qabaja, 2001
5. Performance Optimization of ART Neural Networks Using Genetic Algorithms  
Hussein Natsheh, 2007
6. An Adaptive Genetic Algorithm for Solving the VLSI Placement Problem  
Rose Al Qasim, 2007

---

***Publications: Master Theses (Committee Member)***

---

7. Process Migration in Distributed Virtual Systems  
Ra'ed Al Omari, 1996
8. Handling Techniques for Page Duplication in Distributed Virtual Memory Environment  
Wa'el Al Qassas, 1997
9. Handling Deadlocks in Distributed Virtual Memory Systems  
Amjad Odette Allah, 1997
10. Co-scheduling Hardware and Software Pipelines  
Taisir Al Khdoor, 1998
11. New Algorithm for Distributed Sorting in Distributed Systems  
Faisal Al Sa'ad, 1998
12. K-processor Reliability Analysis of Large Scale Hierarchical SCI Ring-Based Networks  
Mo'ad Mowafi, 1998
13. Mobile Robot Navigation Using Neuro-Fuzzy Systems  
Yahya Tashtoosh, 1998
14. Building Fuzzy Maps for Mobile Robot Navigation Based on Ultrasonic Range Detection  
Omar Bani Melhem, 1998
15. Recognition of Gestures in Arabic Sign Language Using Neuro-Fuzzy Systems  
Ala'a Halawani, 1999
16. The Impact of DCF and PCF Protocols in Mobile Wireless LAN  
Osama Abu Rahmeh, 1999
17. High Level Synthesis of Integrated Heterogeneous Multiprocessor Systems for Digital Signal Processing Applications  
Jihad Ghanim, 2000
18. Artificial Neural Networks Approach for Finite Element Modeling Problems in Electromagnetic Engineering  
Rafi Al Qasim, 2001

---

***Publications: Journal Papers***

---

1. A Functional Memory Implementation of the M-Max NLMS Adaptive Algorithm  
Canadian Journal of electrical and Computer engineering, Canada, Apr 2001  
Taisir Eldos, Khalid Mayas and Taisir Abulnasr
2. Scalable Autonic Processing Systems  
International Journal of Computer Applications in Technology, United Kingdom, Sep 2001  
Adnan Shaout, Taisir Eldos and Najamuz Zamman

3. Arabic Text Data Mining: A Root Based Hierarchical Indexing Model  
International Journal of Modeling and Simulation, USA, Canada and Switzerland, 2003  
Taisir Eldos
4. On The Classification of Computer Architecture  
International Journal of Science and Technology, USA 2003  
Adnan Shaout and Taisir Eldos
5. Distributed Genetic Algorithms: A Scheme for Genetic Drift Avoidance  
The Journal of Electrical Engineering, Slovakia 2008  
Taisir Eldos
6. ART1 ANN with Genetically Engineering Parameters  
Journal of Computer Science, USA 2008 (accepted for publishing)  
Taisir Eldos and Hussein Natsheh

---

***Publications: Conferences Papers***

---

7. A Study of the Robustness of the M-Max NLMS Adaptive Algorithm  
IEEE International Symposium on Circuits and Systems, ISCAS'99  
Orlando-Florida, June 1999  
Khalid Mayas, Taisir Abulnasr and Taisir Eldos
8. Functional Memory Based Architecture for Running Sorting  
IEEE International Symposium on Signal Processing Applications, ISSPA'99  
Brisbane-Australia, September 1999  
Taisir Eldos, Khalid Mayas and Taisir Abulnasr
9. Scalable Automotive Processing System  
Arab Conference on Information Technology, ACIT2001  
Irbid-Jordan, November 2001  
Adnan Shaout and Taisir Eldos
10. Arabic Text Data Mining: A Root Extractor for Dimensionality Reduction  
International Conference on Applied Informatics, AI2002  
Innsbruck-Austria, February 2002  
Taisir Eldos
11. Catastrophic Effects: A New Factor of Distributed Genetic Algorithms  
International Conference on Modeling and Simulation, MS2006  
Kuala Lumpur, Malaysia, April 2006  
Taisir Eldos
12. A New Migration Model for Distributed Genetic Algorithms  
The 2006 International Conference on Scientific Computing, CSC'06  
Las Vegas, Nevada – USA, June 2006  
Taisir Eldos
13. Performance Optimization of ART Neural Networks Using Genetic Algorithms  
First IEEE Symposium on Foundations of Computational Intelligence (FOCI'07)  
Honolulu, Hawaii – USA, April 2007  
Hussein Al Natsheh & Taisir Eldos

14. A Population Sizing Scheme for Genetic Algorithms  
IEEE International Conference on Computer Systems and Applications, AICCSA '07  
Amman, Jordan, May 2007  
Rose Al Qasim and Taisir Eldos
15. A Unified Backward Approach to the Code Book Design Problem, IEEE International Conference on Electro/Information Technology (EIT'08)  
Ames-Iowa, USA, May 2008  
Taisir Eldos and Rasha Omari

---

***Academic Activities & Services: National Committees***

---

- National Y2K Task Force, Member
- National Y2K Task Force, University Liaison

---

***Academic Activities & Services: University Committees***

---

- Steering Committee, Center of Information & Computing
- Curriculum Evaluation and Development for Al Balqa State University
- MIS & HIS Specification Committee of King Abdullah University Hospital
- MIS & HIS Evaluation Committee of King Abdullah University Hospital
- MIS & HIS Tender Committee of King Abdullah University Hospital
- MIS & HIS International Site Visits Committee of King Abdullah University Hospital
- The e-University Committee

---

***Academic Activities & Services: Faculty Committees***

---

- Scientific Day Committee, Member
- Graduate Studies Committee, Member
- Faculty Handbook Committee, Coordinator
- Laboratories Committee, Coordinator

---

***Academic Activities & Services: Department Committees***

---

- Curriculum Committee, Coordinator
- Research Committee, Coordinator
- Seminars Committee, Coordinator
- Laboratories Committee, Coordinator
- Training Committee, Coordinator
- Tenders Committee, Coordinator
- Appointment Committee, Coordinator
- Social Affairs Committee, Coordinator
- Graduate Studies Committee, Member
- Commission Committee, Coordinator
- Department Website Committee, Designer
- Students Affairs Committee, Member
- Students Advisory Committee, Member

---

## ***Academic Activities & Services***

---

- New York Institute of Technology, Computer Architecture for graduate students
- New York Institute of Technology, Advanced Microprocessor Systems for graduate students
- New York Institute of Technology, Computer Organization for undergraduate students
- New York Institute of Technology, Operating Systems for undergraduate students
- Yarmouk University, Advanced Microprocessor Systems for graduate students
- Yarmouk University, Software Engineering for undergraduate students
- Arab Open University, Telematics for undergraduate students
- Al Balqa Applied University, Supervising Graduation Projects

---

## ***Contacts***

---

Mail	Dr. Taisir Eldos Department of Computer Engineering College of Computer Engineering and Sciences, Al Kharij King Saud University Al Kharij, 11942-150
Email	teldos@ksu.edu.sa, eldos@eldos.net , eldos@just.edu.jo , eldos@icee.org
Website	Personal: <a href="http://www.eldos.net">www.eldos.net</a> University: <a href="http://faculty.ksu.edu.sa/eldos">faculty.ksu.edu.sa/eldos</a> Weblog: <a href="http://www.eldosblog.blogspot.com">www.eldosblog.blogspot.com</a>
Mobile #	Saudi Arabia +966 59 946 3949 Jordan +962 79 5588011