

Nasser Hasan Dardas



Personal Information

Nationality: Jordanian

E-mail: nq2600@gmail.com

Mobile Number: 00962 780053460
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Hardware: PSTN.

Programming Languages: C, C++, Matlab, Java.

Education

2.1 Ph.D., Electrical and Computer Engineering, University of Ottawa, Ottawa, Ontario, Canada, 2008 – 2012.

• **Thesis title:** “Real Time Hand Gesture Detection and Recognition for Human Computer Interaction”

• **Supervisors:** 1- **Dr. Emil Petriu**, Dr. Eng., P. Eng., F'IEEE, F'CAE, F'EIC, Professor, University Research Chair. Tel: (001613) 562-5800 Ext. 2132, Fax: (001613) 562-5664. E-mail: petriu@site.uottawa.ca

2- **Dr. Abdulmotaleb El Saddik**, Professor, University of Ottawa. Tel: (001613) 562-5800 Ext. 6277, Fax: (001613) 562-5664. E-mail: elsaddik@uottawa.ca

2.2 M.A.Sc., Electrical Engineering – Computer Networks , Systems and Computer Engineering Department, Carleton University, Ottawa, Ontario, Canada, 2006 – 2008.

• **Thesis title:** “Performance Cost of Different Security Features”

• **Supervisor:** **Dr. Dorina Petriu**, Ph.D., P.Eng., Fellow CAE, Fellow EIC. Professor, Carleton University.

Tel: (001613) 520-5652, Fax: (001613) 520-5727

E-mail: Petriu@sce.carleton.ca

2.3 M.Sc., Electrical Engineering - Communications, University of Jordan, Amman, Jordan, 1995 – 1998.

• **Thesis title:** “Performance and Timing Errors Sensitivity Analysis to a Number of Digital Modulation and Signaling Techniques”,

• **Supervisors:** 1- **Dr. Ahmad Mostafa**, Ph.D., Associate Professor, University of Jordan. 2- **Dr. Mohammad Khasawneh**, Ph.D., Associate Professor, Jordan University of Science and Technology.

2.4 B.Sc., Electrical Engineering - Communications, Jordan University of Science and Technology, Irbid, Jordan, 1983 – 1988.

Awards, Distinctions and Fellowship

3.1 Awarded an admission scholarship from the University of Ottawa for Ph.D. program for 4 years (2008-2011).

3.2 Awarded scholarship from Royal grant/Jordan for Bachelor program for 5 years (1983-1988).

Research Interests

Digital and Wireless Communication Systems, Computer networks, Computer Vision, Image Processing.

Research Experience

- 1- Research Assistant at Carleton University: Computer Networks Security
- 2- Research Assistant in the Distributed & Collaborative Virtual Environments Research Laboratory (DISCOVER), Electrical and Computer Engineering Department, University of Ottawa, Ottawa, Ontario 2008- 2012.
 - **Human Computer Interaction**, including:
 - Hand Gesture Detection, Tracking, and Recognition.
 - Building grammar and gesture commands.
 - Interactions with applications and videogames.

Teaching Experience

- 1- Assistant Professor (Full time):** Computer Engineering Department. King Faisal University, Hofuf, Saudi Arabia. **(Jun 2013-July 2024)**
- 2- Teaching Assistant (Full time):** Electrical and Computer Engineering department, University of Ottawa, Ottawa, Ontario, Canada **(Jan 2009 – July 2012)**

Teaching Courses:

1. *Electric Circuits*
2. *Electronic Circuits*
3. *Digital Electronics*
4. *Programming Language*
5. *Probability and Random Variables*
6. *Logic Circuits*
7. *Computer Organization and Architecture*
8. *Signals and Systems*
9. *Analogue communications*
10. *Digital Communication*
11. *Mobile Communications*
12. *Communication and Computer Networking systems*
13. *Digital Signal Processing*

Publications

7.1 Nasser Dardas, Nicolas Georganas, “Real Time Hand Gesture Detection and Recognition Using Bag-of-Features and Support Vector Machine Techniques”, IEEE Transactions on Instrumentation and Measurement, VOL. 60, no. 11, pp. 3592 - 3607, Nov 2011.

7.2 Nasser Dardas, Mohammad Alhaj, “Hand Gesture Interaction with a 3D Virtual Environment”, The International Journal of ACM JORDAN, Vol.2, No.3, September 2011.

7.3 Nasser Dardas, Qing Chen, Nicolas Georganas, Emil Petriu, “Hand Gesture Recognition Using Bag-of-Features and Multi-Class Support Vector Machine”, HAVE 2010, 9th IEEE Int. Workshop on Haptic Audio Visual Environments and Games, Oct. 16-17, 2010, Phoenix, AZ, USA.

7.4 Nasser Dardas, Emil Petriu, “Hand Gesture Detection and Recognition Using Principal Component Analysis”, CIMSA 2011, 4th IEEE Int. Conference on Computational Intelligence for Measurement Systems and applications, Sep. 19-21, 2011, Ottawa, ON, Canada.

7.5 Nasser H. Dardas, Juan M. Silva, Abdulmotaleb El Saddik, “Target-Shooting Exergame with Hand Gesture Control”, International Journal Multimedia Tools and Applications, 2012.

Memberships

8.1 A member of Jordanian Engineering Association

Employment Experience

Assistant Professor (Full time) (20 June 2013 – Present)

Computer Engineering Department. King Faisal University, Hofuf, Saudi Arabia

Teaching Assistant (Full time) (1 January 2009 – 31 July 2012)

Electrical and Computer Engineering Department, University of Ottawa, Ottawa, Ontario, Canada

Operation & Maintenance Engineer (Full time) (6 July 1993 – 30 Nov 2004)

Jordan Telecommunication Company in Jordan:

Operation & Maintenance Engineer of Public Switching Telephone Networks (PSTN)

Computer Network Engineer (Full time) (1 August 1990 – 20 June 1993)

MICROSYSTEMS COMPANY in Dubai

- LAN/WAN network design and installation

Electronics Engineer (Full time) (1 Jan 1989 – 31 July 1990)

Electronic Equipment Workshop in Jordan

- Testing and repairing faulty electronic boards

Workshops

1. Faculty Member as Leader – Manager (1 Week) 2018.
2. Infusing Skills in Academic Courses (1 Week) 2018.
3. Problem-Solving Learning (1 Week) 2018.
4. Teaching Methods Based on Modern Educational Technologies (1 Week) 2018.

Specialized Training

1. Operation & Maintenance (OAM) ALCATEL-E10B Public Exchange in Jordan Telecommunication College (1 Month) 1993.
2. Software & Hardware OMC (Operation & Maintenance Centre) with ALCTEL-CIT (3 Weeks). France, 1994.
3. Operation & Maintenance (OAM) of ALCTEL-OCB 283 Public Exchange with ALCTEL-CIT (2 Month) France, 1995.
4. System Operation, Administration & Maintenance for the SIEMENS SYSTEM – EWSD Public Exchange as OAM specialist in SIEMENS Training Centre in MUNICH/GERMANY during (30/9/1996 - 4/12/1996).
5. Operation & Maintenance Digital Transmission Equipment PDH, SDH in Jordan Telecommunication College (1 Month) 1997.
6. Operation & Maintenance ATM switch in Jordan Telecommunication College (2 Weeks) 2000.

References

- **Dr. Abdulmotaleb El Saddik,**
Distinguished Univ. Proffesor. Dr.-Ing. Abdulmotaleb El Saddik
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Department of Electrical Engineering and Computer Science
University of Ottawa
Canada
- **Dr. Majed Alshamari**
Professor
E-mail: smajed@kfu.edu.sa
Mobile: (00966) 541902233
Vice President for Postgraduate Studies and Scientific Research at King Faisal University. Hofuf, Saudi Arabia,
Before:Dean of College Computer Science and Information Technology at King Faisal University. Hofuf, Saudi Arabia,
Dean of College Engineering. King Faisal University. Hofuf, Saudi Arabia,
- **Dr. Mohammed Alojail:**
Associate Professor
E-mail: malojail@ksu.edu.sa
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Vice Dean of the College for Postgraduate Studies and Scientific Research at King Saud University. Riyadh, Saudi Arabia,
Before: Dean of College Computer Science and Information Technology at King Faisal University. Hofuf, Saudi Arabia,