

Fakhry Khellah

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Work Address

Prince Sultan University
P.O.Box No. 66833,
Riyadh, Saudi Arabia
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Home Address

Tel#: 01-455-3484
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Research and development skills

- Multidimensional Kalman filtering and smoothing
- Large-scale static and dynamic estimation theory
- Statistical digital signal / image processing
- Remote sensing applications
- Pattern recognition and classification
- Statistical analysis of large data sets

Computer skills

- Excellent knowledge in **Matlab** scripts and **C/C++** programming languages
- Networking: **CCNA** certified

Publications

- F. Khellah, P. Fieguth, Statistical Processing of Large Scale Image Sequences, IEEE Transactions on Image Processing, Vol. (14) #1, pp.80--93, 2005
- F. Khellah, P. Fieguth, Efficient Interpolation of Large Image Sequences, Proc. Of IEEE International Geoscience and Remote Sensing Symposium, Vol (4): pp. 3332-3334, Canada, 2002.
- T.I. Lukowski, F. Khellah, F.J. Charbonneau, and B. Yue, "Synthetic Aperture Radar for Search and Rescue: Evaluation of Advanced Capabilities in Preparation for RADARSAT-2," Proceedings of Automatic Target Recognition XII, April 2-4, 2002, Orlando Florida.
- P. Fieguth, F. Khellah, M. Murray, and M. Allen, Data-fusion of Sea Surface Temperature, IEEE International Geoscience and Remote Sensing Symposium, Hawaii, 2000.
- P. Fieguth, F. Khellah, M. Murray, and M. Allen, Large Scale Dynamic Estimation of Ocean Surface Temperature, IEEE International Geoscience and Remote Sensing Symposium, Germany, 1999.
- F. Khellah and S. Mahmoud, Arabic Character Recognition for Hexagonally Sampled Data, Arabian Journal of Science and Engineering, 1994.

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- Work Experience
- 1/2002 – Present Prince Sultan University Riyadh, Saudi Arabia**
Assistant Professor
Courses
- Data Communications & Computer Networking
 - Digital Design
 - Computer Architecture
 - Computer Organization & Assembly Language
 - Introduction to Computers
- 9/2006 - 9/2008 Prince Sultan University Riyadh, Saudi Arabia**
Information Systems Dept. Chairman
- 6/2001 – 12/2001 Canada Center for Remote Sensing Ottawa, Canada**
Researcher
- Developing algorithms for Automatic Target Detection and Recognition (ATR) in SAR images.
 - Applications of such algorithms to help in the search and rescue effort.
- 9/1997 – 6/2001 University of Waterloo Waterloo, Canada**
Research Assistant
- Development of statistical algorithms for large-scale static and dynamic estimation problems.
 - Applications of these algorithms in estimating sea surface temperature based on satellite measurements.
- 5/2000 – 9/2000 University of Waterloo Waterloo, Canada**
Teaching Assistant: Digital Design
- Preparation and presentation of one-hour tutorials.
 - Laboratory exercise training and supervision.
 - Students mentoring and exam preparation.
- 1/1999 – 4/1999 University of Waterloo Waterloo, Canada**
Teaching Assistant: Pattern Recognition
- Preparation, organization, and typesetting of pattern recognition manuscript.
 - Layout and illustrative technical figure preparation.
- 10/1989 – 7/1996 Information Center, Ministry of Communications Riyadh, Saudi Arabia**
System support engineer
- Financial systems development under ORACLE.
 - End-User training and support.
 - Technical consultant and resource for ORACLE, C, and Visual Basic development
- Education
- 1997 - 2001 **University of Waterloo Waterloo, Canada**
- Ph.D. Degree, Systems Design Engineering
Thesis title: *Statistical Processing of Large image sequences*
- 1991 - 1992 **University of Bradford Bradford, England**
- Master of Philosophy, Electrical Engineering

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Thesis title: *Optical Arabic Character Recognition*

1984 - 1989

**University of Petroleum and Minerals
Arabia**

Dhahran, Saudi

- B.Sc , Computer Engineering, High Honor, GPA 3.54/4.00

Academic Awards

2000 – 2001 Ontario Graduate Scholarship - (one year)

1997 - 2000 Faculty of Engineering / University Graduate Scholarship - (7 in total)

1984 - 1989 Undergraduate Honor Awards - (9 in total)

References

- Prof. Paul Fieguth, Dept. Systems Design Engineering, Univ. Waterloo, Waterloo, Ontario, N2L 3G1.
- Prof. Abdulaziz Eqab, Um Al-Qra University, Makkah, Tel#: 02-5423712
- Prof. Dwight Aplevich, Dept. Electrical Computer Eng., Univ. Waterloo, Waterloo, Ontario, N2L 3G1.
- Prof. M. E. Jernigan, Dept. Systems Design Engineering, Univ. Waterloo, Waterloo, Ontario, N2L 3G1.