

Fakhry Khellah

Work Address

Prince Sultan University
P.O.Box No. 66833,
Riyadh, Saudi Arabia
Tel#: 011-494-8452
Email: fkhellah@psu.edu.sa

Home Address

Tel#: 011-456-2687
Mobile# 0501958605
Email: fkhellah@gmail.com

Research Interests

- Statistical digital signal / image processing
- Pattern recognition and classification
- Statistical analysis of large data sets

Computer skills

- Excellent knowledge in **Matlab**
- Java Programming Language
- Networking: **CCNA** certified

Publications

- **F. Khellah**, Application of Local Binary Pattern to Windowed Nonlocal Means Image Denoising, Accepted, **International Conference on Image Analysis and Pattern Recognition, Lectures Notes in Computer Science**, Italy, 2013.
- **F. Khellah**, Texture image Denoising Using Dominant Neighborhood Structure, **Arabian Journal of Science and Engineering**, Springer, Accepted, 2013.
- **F. Khellah**, Texture Classification using Dominant Neighborhood Structure, **IEEE Transactions on Image Processing**, Vol. (20) #11, pp.3270-3279, 2011.
- **F. Khellah**, et. al., Statistical Processing of Large Scale Image Sequences, **IEEE Transactions on Image Processing**, Vol. (14) #1, pp.80-93, 2005.
- T. Lukowski, B. Yue, F. Charbonneau, **F. Khellah**, R. Hawkins, Detection of crashed aircraft in polarimetric imagery, **Canadian Journal of Remote Sensing**, Vol. (30) #3, 484-495, 2004.
- **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. 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, Orlando Florida, 2002.
- 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, Recognition of Hexagonally Sampled Printed Arabic Characters, **Arabian Journal of Science and Engineering**, Vol. 19 #(4A), pp. 565-586, 1994.

Fakhry Khellah

Work Experience

1/2002 – Present Prince Sultan University Riyadh, Saudi Arabia
Assistant Professor

Courses

- Data Communications & Computer Networking
- Discrete Mathematics
- Network Operations and Management
- Digital Design
- Computer Architecture
- Computer Organization & Assembly Language
- Introduction to Computers

9/2016 - 9/2018 Prince Sultan University Riyadh, Saudi Arabia
Computer Science Dept. Chairman

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

Fakhry Khellah

- Education**
- 1997 - 2001 **University of Waterloo** **Waterloo, Canada**
- **Ph.D. Degree, Systems Design Engineering**
Thesis title: Large Scale 2D Dynamic Estimation
- 1991 - 1992 **University of Bradford** **Bradford, England**
- **Master of Philosophy, Electrical Engineering**
Thesis title: Analysis of Hexagonally Sampled images with Application to Arabic Cursive Text Recognition
- 1984 - 1989 **University of Petroleum and Minerals** **Dhahran, Saudi Arabia**
- **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.