

## DEGREES

- PhD, Engineering and IT  
University of Technology Sydney (UTS), Australia, 2012
- GradCert, Research Commercialization  
University of Technology Sydney (UTS), Australia, 2010
- MS, Engineering Management  
University of Technology Sydney (UTS), Australia, 2004
- BSc, Industrial Engineering  
The University of Jordan, Jordan, 2002



## EXPEIENCE

- |              |                                                                                                                                |
|--------------|--------------------------------------------------------------------------------------------------------------------------------|
| 2015-Present | Assistant Professor, Department of Industrial Engineering, The Hashemite university, Jordan.                                   |
| 2013         | Teaching assistant, Faculty of Engineering and IT, University of Technology Sydney (UTS), Australia.                           |
| 2013         | EEG data analyst, Faculty of Health Sciences, The University of Sydney, Australia.                                             |
| 2007         | Research Assistance- University of Technology Sydney (UTS), Australia. Project Title: "A novel channel and feature selection". |

## COURSE TAUGHT

- Quality Control
- Production Planning and Control
- Engineering Economics
- Project Design and Analysis
- Mechanical/Electrical Condition Monitoring
- Introduction to Digital Systems

## PUBLICATIONS

### JOURNALS

1. Al-Ani A., A. **AlSukker**, and R. Khushaba, Feature subset selection using differential evolution and a wheel based search strategy. *Swarm and Evolutionary Computation*, volume 9, pages 15-26, 2013.
2. Khushaba R., A. **AlSukker**, A. Al-Ani, A. Al-Jumaily, and A. Y. Zomaya. A novel swarm based feature selection algorithm in multifunction myoelectric control. *Journal of Fuzzy Intelligent Systems*, volume 20, pages 175-185, 2009.

### BOOK CHAPTER

1. Khushaba R., A. Al-Ani, A. **AlSukker**, and A. Al-Jumaily. A combined ant colony and differential evolution feature selection algorithm. In *Ant Colony Optimization and Swarm Intelligence*, volume 5217 of *Lecture Notes in Computer Science*, pages 1-12. Springer Berlin/Heidelberg, 2008.

### CONFERENCES

1. **AlSukker A.** and A. Al-Ani. An enhanced neural network ensemble for automatic sleep scoring. In *International Conference on Communications and Information Technology (ICCIT '11)*, Aqaba, Jordan, pages 126 -129, 2011. (Best Paper Award).
2. **AlSukker A.**, R. Khushaba, and A. Al-Ani. Optimizing the *knn* metric weights using differential evolution. In *International Conference on Multimedia Computing and Information Technology (MCIT '10)*, Sharjah, UAE, pages 89 -92, 2010.
3. **AlSukker A.**, R. Khushaba, and A. Al-Ani. Enhancing the diversity of genetic algorithm for improved feature selection. In *IEEE International Conference on Systems Man and Cybernetics (SMC '10)*, Istanbul, Turkey, pages 1325-1331, 2010.
4. R. Khushaba, R. Elliott, **A. AlSukker**, A. Al-Ani, and S. McKinley. Orthogonal locality sensitive fuzzy discriminant analysis in sleep-stage scoring. In the 20<sup>th</sup> *International Conference on Pattern Recognition (ICPR '10)*, Istanbul, Turkey, pages 165 –168, 2010.

5. **AlSukker A.**, A. Al-Ani, and A. F. Atiya. A modified k-nearest neighbor classifier to deal with unbalanced classes. In International Joint Conference on Computational Intelligence, Madeira, Portugal, pages 408-413. INSTICC Press, 2009.
6. R. Khushaba, **A. AlSukker**, A. Al-Ani, and A. Al-Jumaily. Enhanced feature selection algorithm using ant colony optimization and fuzzy memberships. In Proceedings of the 6th IASTED International Conference on Biomedical Engineering, Innsbruck, Austria, pages 34–39. ACTA Press, 2008.
7. R. Khushaba, **A. Al Sukker**, A. Al-Ani, and A. Al-Jumaily. Intelligent artificial ants based feature extraction from wavelet packet coefficients for biomedical signal classification. In 3rd International Symposium on Communications, Control and Signal Processing (ISCCSP '08), St. Julians, Malta, pages 1366 –1371, 2008.
8. A. Al-Ani and **A. Al-Sukker**. Effect of feature and channel selection on EEG classification. In Proceedings of the 28th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBS '06), New York, USA, pages 2171–2174, 2006.
9. **A. AlSukker** and A. Al-Ani. Evaluation of feature selection methods for improved EEG classification. In Proceedings of the International Conference on Biomedical and Pharmaceutical Engineering (ICBPE '06), Singapore, pages 146–151, 2006.

#### **PROFESSIONAL MEMBERSHIP**

- Jordanian Engineering Association (JEA)
- Institute of Electrical and Electronics Engineers (IEE)