

CURRICULUM VITAE

Contact Information

Name: Malik Shehadeh Braik

Date of birth: 19 Feb. 1977

Place of birth: Irbid, Jordan

Citizenship: Jordan

Address: Salt, Jordan P. O. Box 609 / Postal Code 19110

Email: m_fjo@yahoo.com

Mobile: +962 7 2680202

Home: +962 5 3501977

Home institute address: Al-Balqa' Applied University, Al-Salt, Jordan, +962 5 349 1111.

Academic Qualification

Ph.D. September 2011 – August 2016, Electronic, Electrical and Computer Engineering, University of Birmingham, U.K., the title of thesis is “A highly adaptable model based – method for colour image interpretation”.

M.Sc. October 2003 – June 2005, Al-Balqa' Applied University, Al-Salt, Jordan, Computer Science – Image Processing and Artificial Intelligence.

B.Sc. September 1995 – September 2000, Jordan University of Science and Technology, Irbid, Jordan, Electrical/Computer Engineering–Major in Computer Engineering.

Work Experience

11 September 2005-11 September 2011	Department of Computer Science, Al-Balqa Applied University, Al-Salt Campus, Jordan, Instructor
06 November 2002 – 01 August 2004	Jeddah, Saudi Arabia, Trainee and Instructor
12 March 2001 – 01 November 2002	Al-Isra Private University, Computer Programmer, Network Administrator and Lab. Supervisor

Taught Courses

Electronics Lab., Digital Electronics Lab., Electrical Circuits Lab., Electrical Machines Lab., Software Engineering Lab., Data warehousing, Data Security, Web Application Development, Advanced Database Systems, Operating systems, Distributed Database Management Systems, Parallel and Distributed Systems, Communication Skills, Data Structures I, Data Structures II, Web Computing (1), Software Reliability and Testing, Information Systems Design, Advanced Data Structures and Algorithms, Object Oriented Programming using C#. Object Oriented Programming using Java, Java Programming, Computer Skills II (programming in C++), Matlab, Visual Basic, Data Communications and Networking, Digital Logic Design, Distributed Database Management, Introduction to UNIX Operating System (lab), Computer Architecture, Object Oriented Programming (in C++), etc.

Research interests

Computer vision, Parallel programming and computing, Image processing, Artificial Intelligence, Control and System Identification, Modeling and Reliability, Networking, Information Retrieval, Data Mining and Data Warehousing.

Publications

Book Chapters

- *Malik Braik and Alaa Sheta* "Exploration of Genetic Algorithms and Particle Swarm Optimization in Improving the Quality of Medical Images." *Published in the Computational Techniques and Algorithms for Image Processing, published by Lambert Academic Publishing (LAP), ISBN: 978-3-8433-5802-6, 329-360, Germany, 2011.*
- Sheta, Alaa, Malik Braik, Ertan Öznergiz, Aladdin Ayesh, and Mehedi Masud "Design and Automation for Manufacturing Processes: An Intelligent Business Modeling Using Adaptive Neuro-Fuzzy Inference Systems." In *Business Intelligence and Performance Management*, 191-208. Springer London, 2013

International Journals

- Sheta, Alaa, Mouhammd Alkasassbeh, Malik Braik, and Hafsa Abu Ayyash "Detection of oil spills in SAR images using threshold segmentation algorithms." *International Journal of Computer Applications* 57, no. 7, 2012.
- Alhadidi, Basim, Malik Braik, and Mohammad I. Salem "A Thresholding Technique for Potentially Malignant Cells Recognition in Epithelial Tissues." *Trends in Applied Sciences Research* 6, no. 10, 2011.
- Al-Hiary, Heba, Sulieman Bani-Ahmad, Mohammad Reyalat, Malik Braik and Zainab ALRahamneh. "Fast and Accurate Detection and Classification of Plant Diseases". *International Journal of Computer Applications (IJCA)*. Volume 17– No.1, PP 31-38, 2011.
- Al-Hiary, Heba, Basim Alhadidi, and Malik Braik "An Implemented Approach for Potentially Breast Cancer Detection Using Extracted Features and Artificial Neural Networks." *Computing and Informatics* 31, no. 1, 225-244, 2012.
- Al Bashish, Dheeb, Malik Braik, and Sulieman Bani-Ahmad "Detection and classification of leaf diseases using K-means-based segmentation and neural-networks-based classification." *Information technology journal* 10, no. 2, 267-275, 2011.
- Braik, Malik, Alaa Sheta, and Aladdin Ayesh "Particle swarm optimisation enhancement approach for improving image quality." *International Journal of Innovative Computing and Applications* 1, no. 2, 138-145, 2007.

Conferences

- Sheta, Alaa F., Malik Braik, and Heba Al-Hiary "Identification and Model Predictive Controller Design of the Tennessee Eastman Chemical Process Using ANN." In *ICAI*, pp. 25-31. 2009.
- Al-Hiary, Heba, Malik Braik, Alaa Sheta, and Aladdin Ayesh "Identification of a chemical process reactor using soft computing techniques." In *Fuzzy Systems, 2008. FUZZ-IEEE 2008.(IEEE World Congress on Computational Intelligence)*. *IEEE International Conference on*, pp. 845-853. IEEE, 2008.
- Braik, Malik, Alaa Sheta, and Amani Arieqat. "A comparison between GAs and PSO in training ANN to model the TE chemical process reactor." In *AISB 2008 Convention Communication, Interaction and Social Intelligence*, vol. 1, p. 24. 2008.

- Braik, Malik, and David Pycock "Pedestrian cue detection: colour inverse maximum likelihood ratio." In Sixth International Conference on Machine Vision (ICMV 13), pp. 906705-906705. International Society for Optics and Photonics, 2013.
- Braik, Malik, Alaa F. Sheta, and Aladdin Ayeshe. "Image Enhancement Using Particle Swarm Optimization." In *World congress on engineering*, vol. 1, pp. 978-988. 2007.
- Sheta, Alaa, Malik S. Braik, and Sultan Aljahdali. "Genetic Algorithms: A tool for image segmentation." In *Multimedia Computing and Systems (ICMCS), 2012 International Conference on*, pp. 84-90. IEEE, 2012.
- Al Bashish, Dheeb, Malik Braik, and Sulieman Bani-Ahma. "A framework for detection and classification of plant leaf and stem diseases." In *Signal and Image Processing (ICSIP), 2010 International Conference on*, pp. 113-118. IEEE, 2010.
- Braik, Malik, Alaa Sheta, and Sultan Al-Jahdali "Automatic Breast Cancer Detection Methodology Using Artificial Neural Networks." In the Proceedings of the EURO-SIAM: European Conference for the Applied Mathematics and Informatics, pp. 82-87, Athens, Greece, December 28-30, 2010.
- *Mohammad Salamah, Alaa Sheta, and Malik Braik* 'Topology Optimization and Traffic Management in Telecommunication Network Using Hierarchical Genetic Algorithms'. *Proceedings of Fourth International Conference on Intelligent Computing and Information Systems, (ICICIS 2009). Pages 143-148. March 19-22, Cairo, Egypt.*

International Projects

- **Development of Computer-Aided Diagnosis Software for Cancer Detection.** College of Computers & Information Systems, Taif University, October, 2009.

Conferences & Seminars Attended

- 2nd Jordan International Conference on Computer Science and Engineering (JICCSE 2006). Al-Balq'a Applied University, Salt 19117, Jordan, December 4 – 7, 2006.
- The 6th International Conference on Machine Vision (ICMV 2013), November 16-17, 2013, London, the United Kingdom.

International Recognition Certificates

- **Zayed University Competition in JJ 28th April 2011**, the college of Information Technology. In honor of understanding performance for presenting one of the best 10 ZISE Web applications.
- **Zayed University Competition in JJ 28th April 2011**, the college of Information Technology. Participation and contribution to the competition.

References

Available upon request