

# Electrical Engineering

## Year 2012

### Conference Papers

1. A. Abou Jaoude, H. Noura, K. El-Tawil, S. Kadry, M. Ouladsine. Analytic and Nonlinear Prognostic for Vehicle Suspension Systems. 2012 IEEE International Conference on Prognostics and Health Management (IEEE PHM 2012), Denver, Colorado, USA, June 18-21, 2012.
2. A. Abou Jaoude, H. Noura, K. El-Tawil, S. Kadry, M. Ouladsine. Lifetime Analytic Prognostic for Petrochemical Pipes Subject to Fatigue. 8th IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes-Safeprocess'2012, Mexico city, Mexico, August 29 - 31, 2012.
3. A. Abou Jaoude, H. Noura, K. El-Tawil, S. Kadry, M. Ouladsine. Analytic Prognostic Model for Stochastic Fatigue of Petrochemical Pipelines. Australian Control Conference (AUCC 2012), Sydney, Australia, November 15-16, 2012.
4. A.R. Merheb, H. Noura. Novel Bioinspired Stochastic Tuning of a Quadrotor PD Controller. Australian Control Conference (AUCC 2012), Sydney, Australia, November 15-16, 2012.
5. M. Jama, A. Assi, A. Wahyudie, H. Noura. Self-Tunable Fuzzy Logic Controller for the Optimization of Heaving Wave Energy Converters. In Proc. Int. Conf. on Renewable Energy and Applications, Nagasaki, Japan, November, 2012.
6. Qurban Memon, Shakeel Khoja, "Patient Data Tracking in a Collaborative Healthcare", Proceedings of WCICA'2012, Beijing, 2012, pp. 5045-5050, doi: 10.1109/WCICA.2012.6359434.
7. Zahid Ali, Qurban Memon, "Subscriber Location in CDMA Wireless Networks", Proceedings of WCICA'2012, Beijing, 2012, pp. 4390-4394, doi: 10.1109/WCICA.2012.6359219.
8. Amjad Bou matar, Qurban Memon, "Error Concealment in JPEG2000 Coded Images", Proceedings of WCICA'2012, Beijing, 2012, pp. 4760-4765, doi: 10.1109/WCICA.2012.6359380.
9. M. ALAKHRAS, M. Hussein, M. Oussalah, "Multivariable Fuzzy Inference with Multi Nearest Neighbour for Indoor WLAN Localization Based on RSS Fingerprint", UKSim-AMSS 15th International Conference on Modelling and Simulation, 10-12 April, Cambridge University, UK.
10. M. I. Hussein, M. Ismaeel Shekfa and Y. Haik, "Pathogen Detection Using Single Tunnel Junction Sensor (STJ) with Magnetic Nano Particles," ICEAA 2012conference, Cape Town, South Africa, Sept. 2-5, 2012.
11. M. I. Hussein. "Plane Wave Scattering from DNG Metamaterial of Semi-elliptical Boss above a Conducting Plane," ICEAA 2012conference, Cape Town, South Africa, Sept. 2-5, 2012.
12. M. A. Jama, A. Assi, A. Wahyudie, and H. Noura, "Self-Tunable Fuzzy Logic Controller for the Optimization of Heaving Wave Energy Converters", International Conference on Renewable Energy Research and Applications, November 2012.
13. M. A. Jama, A. Assi, A. Wahyudie, and H. Noura, "", International Conference on Renewable Energies for Developing Countries, November, 2012.
14. A. Wahyudie, T. B. Susilo, and H. Noura, "Robust PID Controllers for Quadrotors" International Conference of Intelligent Unmanned Systems, October, 2012.

15.	T. Khalifa, A. Abdrabou, K. Naik, M. Alsabaan, A. Nayak, and N. Goel, "Design and analysis of split- and aggregated-transport control protocol (SA-TCP) for smart metering infrastructure," Proc. IEEE SmartGridComm 2012.
16.	Mohammad Daoud, Mohammad M. Baba, Falah Awwad, Mahasen Al-Najjar, and Emad S. Tarawneh, "Accurate Segmentation of Breast Tumors in Ultrasound Images using a Custom-Made Active Contour Model and Signal-to-Noise Ratio Variations," 8th IEEE International Conference on SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS, 25-29, November 2012 - Sorrento - Naples, Italy.
17.	G. Nabovati, E. Ghafar-Zadeh, F. Awwad, and M. Sawan, "Fully Digital Low-Power Self-Calibrating BPSK Demodulator for Implantable Biosensor". 55th International Midwest Symposium on Circuits and Systems, Boise, Idaho, August 5-8, 2012.
18.	F. K. Lodhi, O. Hasan, S. R. Hasan, and Falah Awwad, "Modified Null Convention Logic Pipeline to Detect Soft Errors in Both Null and Data Phase". 55th International Midwest Symposium on Circuits and Systems, Boise, Idaho, August 5-8, 2012.
19.	E. Ghafar-Zadeh, B. Gholamzadeh, F. Awwad, M. Sawan, "On chip electroporation: Design, Modeling and Experimental Results". Proceedings of the 34th Annual International Conference of the IEEE Engineering in Medicine and Biology (EMBC), San Diego, California, USA, Aug. 28 - Sept. 1, 2012.
20.	Falah Awwad, "Network Theory where Microelectronics Meet Math". The Third Palestinian Conference on Modern Trends in Mathematics and Physics (PCMTMP), Hebron, Palestine, 16-18 July, 2012.
21.	Fadi N. Sibai, Saadullah Mohammad, Hashir Karim Kidwai, and Falah Awwad, "Parallel Implementation and Performance Analysis of a 3D Oil Reservoir Data Visualization Tool on the Cell Broadband Engine and CUDA GPU". Proceedings of the 14th IEEE International Conference on High Performance Computing and Communications (HPCC 2012), Liverpool, UK, 25-27 June, 2012.
22.	Abbas A. Fardoun, Esam H. Ismail, Ahmad J. Sabzali and Mustafa A. Al-Saffar, "New "Real" Bridgeless High Efficiency AC-DC Converter", 27th annual IEEE Applied Power Electronics Conference (APEC), Orlando, pp. 317-323 Feb. 2012.
23.	Ali Assi, Ahmad Hassan, Maitha Al-Shamisi and Hassan Hejase, "Removal of Air Blown Dust from Photovoltaic Arrays Using Forced Air Flow of Return Air from Air Conditioning Systems," Proceedings of the International Conference on Renewable Energies for Developing Countries (REDEC 2012), November 28-29, 2012, Beirut, Lebanon.
24.	Ali Assi, Maitha Al Shamisi and Hassan Hejase, "MATLAB Tool for Predicting the Global Solar Radiation in UAE," proceedings of the International Conference on Renewable Energies for Developing Countries (REDEC 2012), November 28-29, 2012, Beirut, Lebanon.
25.	Maitha H. Al-Shamisi, Ali H. Assi, and Hassan A.N. Hejase, "Using Artificial Neural Networks to Predict Global Solar Radiation in Dubai City (UAE)," proceedings of the 2nd International conference on Renewable Energy: Generation and Applications (ICREGA 2012)-CD-ROM, March 4-7, 2012, Al-Ain, UAE.
26.	Hassan A.N. Hejase, Ali H. Assi, and Maitha Al-Shamisi, "Comparison of Classical Regression and Artificial Neural Network Models for Prediction of Global Solar Radiation in Dubai, UAE," presented at the Global Conference on Global Warming (GCGW 2012), 8-12 July, 2012, Istanbul, Turkey.
27.	Ali H. Assi, Maitha H. Al-Shamisi, and Hassan A.N. Hejase, "Solar Radiation in UAE – A Comparison between Ground Station Measurements and Satellite Estimation," presented at the Global Conference on Global Warming (GCGW 2012), July 8-12, 2012, Istanbul, Turkey.

28. Khaled Shuaib, Issa Khalil and Mohammad Abel-Hafez, "Integrated Secure Communication Framework for the Smart Grid", Proceeding of the IEEE 8th International Conference on Innovations on Information Technology (IIT'12), Al- Ain, UAE, March 18-20, 2012.
29. Omkalthoum Al Bashir, and Mohammed Abdel-Hafez, Multi-Level Collaborative Spectrum Sensing in Nakagami Fading Channels, The Seventh International Conference on Wireless and Mobile Communications, ICWMC 2012, pp 284 – 289, June 24-29, 2012 - Venice, Italy.
30. Mohammad S. Laghari & Gulzar A. Khuwaja, "Scheduling Techniques of Processor Scheduling in Cellular Automaton", Conference Proceedings, "International Conference on Intelligent Computational Systems (ICICS'2012)", Dubai, UAE, January 7-8, 2012, pp. 96-100.
31. Mohammad Shakeel Laghari & Gulzar Ali Khuwaja, "Electrical Engineering Department Advising for Course Planning", Conference Proceedings, "IEEE International Conference on EDUCON", Marrakesh, Morocco, April 17-20, 2012, pp. 861-866.
32. M.S. Laghari & G.A. Khuwaja, "A Bimodal Biometric Identification System", Conference Proceedings "4th International Conference on Graphics and Image Processing (ICGIP-2012)", Singapore, October 6-7, 2012.
33. I. Barhumi, "Decision Feedback Turbo Equalization for OFDM over Doubly Selective Channels", Globecom 2012 - Signal Processing for Communications Symposium (GC12 SPC)", Anaheim, CA, USA, December, 2012, accepted.
34. H. Al-Tous and I. Barhumi, "Resource Allocation for AF Cooperative Communications Using Stackelberg Game", The 2012 Sixth International Conference on Signal Processing and Communication Systems (ICSPCS'2012), Gold Coast, Australia, December, 2012, accepted.
35. H. Al-Tous and I. Barhumi, "Joint Power and Bandwidth Allocation for Multiuser Amplify and Forward Cooperative Communications Using Particle Swarm Optimization", The IEEE 13th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2012), Cesme, Turkey, pp. 55-59, June, 2012.
36. I. Barhumi, "Minimum Mean Square Error Turbo Equalization of Doubly Selective Channels Using the BEM", The 11th International Conference on Information Sciences, Signal Processing and their Applications (ISSPA2012), Montreal, Canada, pp. 951-955, July, 2012.
37. A. Rabee and I. Barhumi, "ECG Signal Classification Using Support Vector Machine Based on Wavelet Multiresolution Analysis", The 11th International Conference on Information Sciences, Signal Processing and their Applications (ISSPA'12), Montreal, Canada, pp. 1319-1323, July, 2012.
38. Yousef, Basem F., Nabil Bastaki, et al. "In-Pipe Inspection robot", 15th International Conference on Climbing and Walking Robots (CLAWAR), Johns Hopkins University, Maryland, USA, July 2012.
<b>Books</b>
1. H. J. Hejase, A. J. Hejase and H. A.N. Hejase, Quantitative Methods for Decision Makers: Management Approach, Dar Sader Publishers, Beirut, Lebanon, 2012, ISBN: 978-9953-13-753-7.
<b>Book Chapters</b>
1. Qurban Memon, "RFID for Smarter Healthcare Collaborative Network," Published in book titled "Building Next-Generation Converged Networks: Theory and Practice", CRC Press, 2012.
<b>Patents</b>