Electrical Engineering

Year 2009
Conference Papers

1. A. Fardoun, M. S. Al Naimi, R. Al Zarooni, H. Noura. A Fault Monitoring Circuit for Five Phase AC Motor. The 3rd International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO09). Sharjah, United Arab Emirates, January 20-22, 2009.

2. F. Bateman, H. Noura, M. Ouladsine. Fault Tolerant Control Strategy Based on the DoA: Application to UAV. 7th IFAC Symposium on Fault Detection, Supervision and Safety for Technical Processes-Safeprocess'2009, Barcelona, Spain, June 30 – July 3, 2009.

3. A. Chamseddine, H. Noura, D. Theilliol. Minimal Sensor Network for Fault Diagnosis Using Structural Analysis. International Conference on Advances in Computational tools for Engineering Applications, ACTEA 2009, Beirut, Lebanon, July 15-17, 2009.

4. A. Fardoun, M. S. Al Naimi, R. Al Zarooni, H. Noura. Fault Diagnostic in a Five-Phase Motor. International Conference on Advances in Computational tools for Engineering Applications, ACTEA 2009, Beirut, Lebanon, July 15-17, 2009.

5. Qurban Memon, S. Khoja, "Academic Program Administration via Semantic Web – A Case Study", Proceedings of International Conference on Electrical, Computer, and Systems Science and Engineering, Dubai, Volume 37, pp. 695-698, 2009.

6. Ala A. Hussein, Michael Pepper, Issa Batarseh and Ahmad Harb "An Efficient Solar Charging Algorithm for Different Battery Chemistries", 5th IEEE Vehicle Power and Propulsion Conference Proceedings, pp. 188-193, Dearborn, Michigan, USA, September, 7-11, 2009.

7. Ala A. Hussein, Michael Pepper, Issa Batarseh and Ahmad Harb "Solar Charging Considerations for Common Battery Chemistries", International Conference on Modeling, Simulation and Visualization Methods Proceedings, pp. 249-253, Las Vegas, Nevada, USA, July 12-17, 2009.

8. Akif Sultan, John Faricelli, Sushant Suryagandh, Hans vanMeer, et al., "CAD utilities to comprehend layout-dependent stress effects in 45nm high- performance SOI custom macro design", 3D.7, ISQED 2009.

9. Akif Sultan, Sean Hannon, Kailash Agrawal, Michael Austin, et al., "Optimization of stress liner interface location to improve circuit-level performance for dual-stress liner (DSL) device architecture", ACISC 2009.

10. A.M. Gaouda and M.M.A. Salama "Feature Extraction of Time-Varying Power Signals," The International Conference on Electric Power and Energy Conversion Systems, Sharjah, UAE, November 2009.

11. Farag Omar, A.M. Gaouda, "Gearbox Diagnostics Using Wavelet-Based Windowing Technique," The 7th International Conference on Modern Practice in Stress and Vibration Analysis conference, Cambridge, UK, 8 - 10 September 2009.

12. T. Nakao, A. Wahyudie. M. Mukai, and T. Kawabe, "An input Modification in Model Predictive by using Augmented Plant", MOVIC, pp-295-298, September 2009 (in Japanese).

13. A. Wahyudie, T. Nakao, M. Mukai, and T. Kawabe, "A Design of Electromechanical Valve Control System using Model Predictive Control", August, 2009.

14. A. Abdrabou and W. Zhuang, "On a stochastic delay bound for disrupted vehicle-to-infrastructure communication with random traffic," Proc. IEEE Globecom'09, Nov. 2009.

15. Saad Elmansori, Otmane Ait Mohamed, and Falah Awwad, "Static Slicing-Based Pre-Reduction Technique for MDG Model-Checker". The sixth IEEE International conference on Innovations in Information Technology (Innovations'09), Dec., 2009, pp. 299 - 303.

16. Fariborz Fereydouni-forouzandeh, Otmane Ait Mohamed, Mohamad Sawan, and Falah Awwad, "TBCD-TDM: Novel Ultra-Low Energy Protocol for Implantable Wireless Body Sensor Networks". Proceedings of the IEEE GLOBAL COMMUNICATIONS CONFERENCE (IEEE GLOBECOM 2009), 30 Nov. – 4 Dec., 2009.

17. Abbas A. Fardoun & Esam H. Ismail, "Non-isolated Single Stage PFC Rectifier for Wide-Input Large Step-Down", 8th International Conference on Power Electronics & Drives Systems, PEDS 2009, Taipei, Taiwan, pp. 294-299, November, 2009.

18. Ahmad J. Sabzali, Esam H. Ismail, Mustafa A. Al-Saffar, and Abbas A. Fardoun, "A New Bridgeless PFC Sepic and Cuk Rectifiers with Low Conduction and Switching Losses," 8th International Conference on Power Electronics & Drives Systems, PEDS 2009, pp550-556, November 2009.

19.	Abbas Fardoun, Moza Al-Naimi, Reema Al-Zarooni and Hassan Noura, "Fault Diagnostics in Five Phase AC Motors", International Conference on Advances in Computational tools for Engineering Applications, ACTEA09, Lebanon, pp. 640-643, July 2009.
20.	Hassan Noura, Abbas Fardoun and Abbas Chamseddine,"Fault diagnosis in complex systems", 10th UAEU Research Conference, April 2009.
21.	Abbas A. Fardoun, Hassan Noura, Esam Ismail, Fatima Al-Muhairi, Fatima Darmaki, Layla Al-Neyadi and Walaa Juma ,"Front End Inverter for a UPS system for telecommunication Application", 10th UAEU Research Conference April 2009.
22.	Moza Al-Naimi, Reema Al-Zarooni, Abbas A. Fardoun and Hassan Noura, "A Fault Monitoring Circuit for Five Phase AC Motor", ICMSAO 09, Sharjah, UAE, January 2009.
23.	RF devices written with carbon nanotube ink on paper: M Dragoman, D Dragoman, M Al Ahmad, R Plana, E Flahaut, European Microwave Conference, vol. 1, pp.: 575-577, Rome/Italy, 2009.
24.	Mohammed Abdel-Hafez, "Almost Exact Outage Capacity of Cooperative Relay Protocols in Wireless Communication Systems over Nakagami-m Fading Channels", the 12th International Symposium on Wireless Personal Multimedia Communications (WPMC'09), September 7 - 10, 2009, Sendai, Japan.
25.	M.S. Laghari, "Wear Particle Analysis by using AI Techniques", Conference Proceedings, "3rd IEEE International Conference on Modeling, Simulation, and Applied Optimization (ICMSAO'09)", Sharjah, UAE, January 20-22, 2009.
26.	Faheem Ahmed, Junaid Aziz and Mohammad Shakeel Laghari, "Empirical Analysis of Team & Application Size on Software Maintenance & Support Activities", Conference Proceedings, "2009 International Conference on Information Management and Engineering (ICIME 2009)", Kuala Lumpur, Malaysia, April 3-5, 2009, pp. 47-51.
27.	Piers Campbell, Faheem Ahmed, & Mohammad Shakeel Laghari, "Cognitive Factors in Software Product Line Engineering", Conference Proceedings, "11th International Conference on Computer Modelling and Simulation (UKsim 2009)", Cambridge, England, March 25-27, 2009.
28.	M.S. Laghari & F. Ahmed, "Wear Particle Profile Analysis", Conference Proceedings, "IEEE International Conference on Computer Design and Applications (ICCDA 2009)", Singapore, May 15-17, 2009, pp. 546-550.
29.	M.S. Laghari & F. Ahmed, "Classification of Wear Particle Shape & Edge Details", Conference Proceedings, "7th International Conference on Robotics, Vision, Signal Processing and Power Applications (RoViSP 2009)", Kedah, Malaysia, December 19-20, 2009.
30.	M.S. Laghari & F. Ahmed, "Computer Vision in the Field of Wear Particles", Conference Proceedings, "The 2nd International Conference on Computer and Electrical Engineering (ICCEE 2009)", Dubai, UAE, December 28-30, 2009, pp. 126-129.
31.	I. Barhumi and M. Moonen, "Time-Varying FIR Decision Feedback Equalization for MIMO Transmission over Doubly Selective Channels," Global Telecommunications Conference, 2009. IEEE GLOBECOM 2009, Nov. 30 2009-Dec. 4, 2009, Honolulu, Hawaii, USA.

Books

1.	H. Noura, D. Theilliol, J.C. Ponsart, A. Chamseddine. Fault-Tolerant Control Systems: Design and Practical Applications. Springer. August 2009. ISBN: 978-1-84882-652-6.

Edited Books

Book Chapters

Patents

1.	David Wu, Mark Michael, Akif Sultan and Jingrong Zhou, "Methods for quantifying variations resulting from manufacturing-induced rounding of various features and methods for testing the same", US patent 7,504,270, Advanced Micro Devices, patent granted March 2009.
2.	Akif Sultan, James Buller and David Wu, "Distinguishing between dopant and line width variation components", US patent 7,582,493, Advanced Micro Devices, patent granted September 2009.
3.	Jingrong Zhou, Mark Michael, David Wu, James Buller and Akif Sultan, "Method of forming transistor devices with different threshold voltages using halo implant shadowing", US patent 7,598,161, Advanced Micro Devices, patent granted October 2009.

4.	Akif Sultan, James F. Buller and Kaveri Mathur, "Semiconductor device and method of fabricating same", US patents 7,633,103 and 8,076,703, GLOBALFOUNDRIES, patent granted December 2009.
5.	Connel Bret Williams, Jeffrey Ronald Coles, Adrian Szabo, Christopher David Dixon, Jiang Li, & Abbas Ahmad Fardoun, "Motor drive control with a single current sensor using space vector technique", patent # US 7,612,522, November 2009.
	Akif Sultan, Mark Michael and David Wu, "Stress enhanced semiconductor device and method for fabricating same", US patent 7,638,837, GLOBALFOUNDRIES, patent granted December 2009.