البحوث المنشورة بمجلات عالمية محكمة خلال سنة 2009

# PUBLISHED PAPERS IN REVIEWED JOURNALS THROUGH 2009

# قسم الرياضيات والإحصاء

### DEPARTMENT OF MATHEMATICS AND STATISTICS

- 1. **L. Bougoffa, M. A. Al-Khadhi:** New explicit solution for Troesch's boundary value problem, **Applied Mathematics & Information Sciences (AMIS),** Vol. 3, No. 1, 89-96, 2009.
- 2. **M. M. Babatin** and Y. H. Zahran: Adaptive multi-resolution central-upwind schemes for systems of conservation laws, **International Journal of Computational Fluid Dynamics**, Vol. **23**, No. 10, pages 723-735, 2009.
- 3. **A. Ben Ghorbal** and V. Crismale: *Projective independence arising from interacting Fock spaces and related central limit theorems*, **Probability and Mathematical Statistics**, Vol. 29 Fasc. 2, pages 400-419, 2009.
- 4. **L. Bougoffa and** A. Khanfer: *Particular solutions to equations of sine-Gordon type*, **Journal of Applied Mathematics and Computing** (**JAMC**), Vol. 32, pages 303-309, 2009.
- 5. **L. Bougoffa:** On the exact solutions for initial value problems of second-order differential equations, **Applied Mathematics Letters**, 22, pages 1248-1251, 2009.
  - 6. L. Bougoffa: A Convergence Analysis of an Iterative Method for a Coupled Nonlinear System of Functional Equations, Computational Methods in Science and Engineering: Advances in Computational Science, AIP Conf. Proc. 1148, Vol. 2, pages 45-49, 2009.
- 7. **L. Bougoffa:** On the traveling wave solutions for a parabolic hyperbolic system in linear thermoelasticity, **Applied Mathematics** and Computation, 215, pages 850-853, 2009.

- 8. A. R. Mahlous, **B. Chaourar**, and M. Mansour: *Performance Evaluation of Max Flow Multipath (MFMP) protocol with Congestion Awareness*, the IEEE 23rd International Conference on Advanced Information Networking and Applications (WAINA-09), Bradford, UK, May 26-29, 2009.
- 9. A. R. Mahlous, **B. Chaourar**, and R. J. Fretwell: *On Minimizing Unused Bandwidths in Series Parallel Networks*, **Journal of King Saud University**, **Vol. 21**, **Science (Special Issue)**, 21-24, 2009.
- 10. **B. Chaourar**: *On the Broadcast Routing Problem*, 5<sup>th</sup> Saudi Technical Conference and Exhibition, Riyadh, Saudi Arabia, Volume II, 145-150, 2009.
- 11. **A. El Khalil, S. El Manouni** and M. Ouanan: *Perturbed nonlinear degenerate problems in R*<sup>N</sup>, **Applicationes Mathematicae (Warsaw)** Vol. 36, pages 213-223, 2009.
- 12. A. Benkirane, M. Chrif and S. El Manouni: Strongly nonlinear problem of infinite order with L¹-data, Electronic Journal of Qualitative Theory of Differential Equations, No. 15, pages 1-12, 2009.
- 13. M. Chrif and **S. El Manouni:** Anisotropic equations in weighted Sobolev spaces of higher order, **Ricerche di matematica**, Vol. 58, No.1, pages 1-14, 2009.
- 14. **S. El Manouni** and M. Kbiri Alaoui: A result on elliptic systems with Neumann conditions via Ricceri's three critical points theorem, Nonlinear Analysis Theory, Methods & Applications Vol. 71, 5-6, pages 2343-2348, 2009.
- 15. **S. Mziou**, N. Scheerlinck and B. M. Nicolai: *Study and modeling of two apple quality attributes: the soluble solids content and the firmness*, **Mathematical and Computer Modelling of Dynamical Systems: Methods, Tools and Applications in Engineering and Related Sciences**, 1744-5051, Volume 15, Issue 4, Pages 317–336, 2009.

- 16. **S. Mziou:** Monte Carlo and Latin Hypercube Methods through a Case Study, **European Simulation and Modelling Conference**, pages 70-76, 2009.
- 17. D. Lesnic and A. Zeb: The Method of Fundamental Solutions for an Inverse Internal Boundary Value Problem for the Biharmonic Equation, International Journal of Computational Methods (IJCM), Volume 6, Issue 4, pages 557-567, 2009.

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- 18. **I. Ghiloufi:** Experimental Evolution of Radioactive waste treatment by plasma, **Journal of King Saud University**, **Vol. 21**, **Science (1)**, pages 77-83, 2009.
- 19. **I. Ghiloufi:** Simulation of radioelement volatility during the vitrification of radioactive wastes by arc plasma, **Journal of Hazardous Materials 163**, pages 136-142, 2009.
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- 21. **O. M. Lemine**, A. Alyemani and M. Bououdina: *Effects of milling time on the formation of nanocrystalline ZnO*, **International Journal of Nanoparticles**, **Vol. 2**, 2009.
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- 23. **O. M. Lemine:** *Microstructural characterisation of*  $\alpha$ - $Fe_2O_3$  *nanoparticles using*, XRD line profiles analysis, FE-SEM and FT-IR, **Superlattices and Microstructures 45,** pages 576-582, 2009.
- 24. **N. Mustapha**: Fabrication of Efficient Solution-Processed Nanodiode for full color displays, **Journal of Materials Science and Engineering**, Vol. 3, No. 8 (serial No. 21), USA, Aug 2009.