

الأبحاث العلمية المنشورة  
بمجلات عالمية محكمة  
خلال سنة 2016

**Published Papers in  
Reviewed Journals  
Through 2016**

## قسم الرياضيات والإحصاء

## Department of Mathematics and Statistics

- 1) **S.K. Bhowmik**, R. Belbaki, T.Z. Boulmezaoud, **S. Mziou**: *Solving two dimensional second order elliptic equations in exterior domains using the inverted finite elements method*; Computers and Mathematics with Applications, Vol. 72, No. 9, pages 2315-2333, 2016.
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- 4) A. Borhanifar, M.M. Khader: Jacobi Operational Matrix and its Application for Solving Systems of ODEs; Differential Equations and Dynamical Systems, Vol. 24, No. 4, pages 459-473, 2016.
- 5) M.M. Khader, A. Borhanifar: Implementation of the matrix differential transformation procedure for obtaining the approximate solution of some nonlinear matrix evolution equations; Applications and Applied Mathematics: An International Journal, Vol. 11, pages 906-918, 2016.
- 6) K. M. Abualnaja, M.M. Khader: A computational solution of the multi-term nonlinear ODEs with variable coefficients using the integral-collocation-approach based on Legendre polynomials; Journal of Progressive Research in Mathematics, Vol. 9, No. 3, pages 1406-1410, 2016.
- 7) M.M. Khader, R.T. Alqahtani: Approximate solution for system of fractional non-linear dynamical marriage model using Bernstein polynomials; Journal of Nonlinear Science and Applications, Vol. 10, pages 865-873, 2016.
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- 11) A. Al Khalaf, M. Alkadhi: Relation between groups with basis property and groups with exchange property; An. St. Univ. Ovidius Constanta, Vol. 24, No. 2, pages 5-14, 2016.
- 12) A. Khanfer: On the Existence of Central Fans of Capillary Surfaces; Pacific Journal of Mathematics, Vol. 281, No. 2, pages 467-479, 2016.
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- 15) L. Bougoffa, R. Rach, A.M. Wazwaz: On solutions of boundary value problem for fourth-order beam equations; Mathematical Modelling and Analysis, Vol. 21, pages 304-318, 2016.
- 16) A.H. Bhrawy, M.A. Abdelkawy: Efficient spectral collocation algorithm for solving parabolic inverse problems; International Journal of Computational Methods, Vol. 13, pages 1-22, 2016.
- 17) M.Z. Youssef: Note on even harmonious labeling of cycles; UTILITAS MATHEMATICA , Vol. 10, pages 137-142, 2016.
- 18) M.A. Abdelkawy, R.T. Alqahtani: Shifted Jacobi collocation method for solving multi-dimensional fractional Stokes' first problem for a heated generalized second grade fluid; Advances in Difference Equations , Vol. 114, pages 1-17, 2016.
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- 25) E. M. Solouma, M. M. Wageeda: Some characterizations of constant ratio curves according to Bishop frame in Minkowski 4-space; J. of Abstract and Computational Mathematics, Vol. 1, No. 1, pages 47-54, 2016.
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- 32) T.Z. Boulmezaoud, N. Kerdid: The spectrum of a weighted Laplacian in the half-space.; mathematical Methods in Applied Sciences, Vol. 39, pages 280-288, 2016.
- 33) M.H. Abdou, M. Chrif, S. El Manouni S, H. Hjjaj: On a class of nonlinear anisotropic parabolic problems; Proceedings of the Royal Society of Edinburgh Section A, Mathematics, Vol. 146A, pages 1-21, 2016.
- 34) S. S. Al-Ashhab, R. T. Alqahtani: Estimation of the Shear Stress Parameter of a Power-Law Fluid; Mathematical Problems in Engineering, Vol. , pages 1-4, 2016.
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## Department of Physics

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