

الأبحاث العلمية المنشورة  
بمجلات عالمية محكمة  
خلال سنة 2015

Published Papers in  
Reviewed Journals  
Through 2015

## قسم الرياضيات والإحصاء

### Department of Mathematics and Statistics

- 1) A. Abdel-Aziz Alaa, **A. Amin Essam**: *The Sampling Distribution of the Maximum Likelihood Estimators from Weibull-uniform Distribution Based on Upper Record Values*. **Journal of Statistics: Advances In Theory And Applications**. Vol. 14, No.2, pages 167-180, 2015.
- 2) **A. Aljouiee**: *Geometric Lattices of Subgroups and Exchange Property*. **Lobachevskii Journal of Mathematics**. Vol. 36, No. 1, pages 76–78, 2015.
- 3) **A. Amin Essam**, A. Abdel-Aziz Alaa: *Bayesian And Non-Bayesian Estimation From Weibull-Uniform Distribution Based On Upper Record Values*. **Journal Of Statistics: Advances In Theory And Applications**. Vol. 14, No. 1, pages 107-123, 2015.
- 4) **Abdelkarem Berkaoui**: *On Characterizing the Set of Martingale Measures in Discrete Time*. **Stochastics and Dynamics**. Vol. 15, No. 3, 1550017, pages 1-17, 2015.
- 5) Abderrahim El Attar, **Said El Manouni**, Omar Sidki: *Nonlinear Elliptic Problems Involving The  $n$ -Laplacian With Maximal Growth*. **Electronic Journal Of Differential Equations**. Vol. 2015, No. 197, pages 1-15, 2015.
- 6) **Abdullah Aljouiee**, **Samir Kumar Bhowmik**: *Windowed Fourier Frames to Approximate Two-Point Boundary Value Problems*. **Abstract And Applied Analysis**. Vol. 2015, Article Id 153010, pages1-7, 2015.
- 7) **Ahmad Abubaker**, Adam Baharum, Mahmoud Alrefaei: *Automatic Clustering Using Multi-Objective Particle Swarm And Simulated Annealing*. **Plos One**. Vol. 10, No. 7: e0130995, pages 1-23, 2015.
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- 9) **E. M. Solouma**, **M. M. Khader**: *Implementation Of Legendre Collocation Spectral Method For Solving Fractional Variational Problems*. **Jokull Journal**. Vol. 65, No. 4, pages 188-200, 2015.

- 10) **E. M. Solouma:** *Three-Dimensional Surfaces Foliated By An Equiform Motion Of Pseudohyperbolic Surfaces In  $E^7$ .* **JP Journal Of Geometry And Topology.** Vol. 17, No. 2, pages 109–126, 2015.
- 11) **Emad M. Solouma, Mohamed M. Khader:** *Approximate Technique For Solving Class Of Fractional Variational Problems.* **Applied Mathematics.** Vol. 6, No. 5, pages 837-846, 2015.
- 12) **Faryad Ali, Mohammed A. Al-Kadhi:** *On The Janko Group J 4 Generated By (2, 3, T) Generators.* **Aip Conf. Proc.** 1648, 850104, pages 1-4, 2015.
- 13) **Hafedh Faires, Abdelkarim Berkaoui:** *Bayesian Estimation For Modulated Claim Hedging.* **Int. Journal Of Engineering Research And Applications.** Vol. 5, Issue 1(Part 4), pages 76-81, 2015.
- 14) **Hafedh Faires:** *The Stochastic Error Rate Estimation of Prediction Distributions.* **Journal Of Mathematical Finance.** Vol. 5, pages 172-177, 2015.
- 15) Humaira Farzana, Md. Shafiqul Islam, **Samir Kumar Bhowmik:** *Computation of Eigenvalues of the Fourth Order Sturm-Liouville BVP by Galerkin Weighted Residual Method.* **British Journal Of Mathematics & Computer Science.** Vol. 9, Issue. 1, pages: 73-85, 2015.
- 16) **Lazhar Bougoffa, Randolph C. Rach:** *Approximate Analytical Solutions of the Thomas-Fermi Equation by a Direct Method.* **Rom. Journ. Phys.** Vol. 60, No. 7-8, pages 1032-1039, Bucharest, 2015.
- 17) **Lazhar Bougoffa Abdul-Majid Wazwaz:** *New Approximate Solutions of the Blasius Equation.* **International Journal of Numerical Methods For Heat & Fluid Flow.** Vol. 25 No. 7, pages 1590-1599, 2015.
- 18) **Lazhar Bougoffa Randolph Rach Abdul-Majid Wazwaz Jun-Sheng Duan:** *On The Adomian Decomposition Method For Solving The Stefan Problem.* **International Journal Of Numerical Methods For Heat & Fluid Flow.** Vol. 25 No. 4, pages. 912-928, 2015.
- 19) **M. M. Khader, A. M. Megahed:** *Boundary Layer Flow Due to a Stretching Sheet with a Variable Thickness and Slip Velocity.* **Journal of Applied Mechanics and Technical Physics.** Vol. 56, No. 2, pages 241–247, 2015.
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- 24) **M. M. Khader:** *An Efficient Approximate Method For Solving Fractional Variational Problems.* *Applied Mathematical Modelling.* Vol. 39, Issues 5–6, Pages 1643–1649, 2015.
- 25) Marie José Bertin, **Toufik Zaïmi:** *Complex Pisot Numbers in Algebraic Number Fields.* *C. R. Acad. Sci. Paris, Ser. I.* Vol. 353, Issue 11, pages 965–967, 2015.
- 26) **Mohamed Hmissi, Farida Mokchaha, Aya Hmissi:** *On Potential Kernels Associated With Random Dynamical Systems.* *Opuscula Math.* Vol. 35, No. 4, pages 499–515, 2015.
- 27) **Mohammed A. Aba Oud:** *Valuation of Options on Oil Futures Under the 3/4 Oil Price Model.* *International Journal of Theoretical and Applied Finance.* Vol. 18, No. 8:1550050, pages 1-12, 2015.
- 28) Moussa Chrif, **Said El Manouni**, Fares Mokhtari: *Strongly Anisotropic Elliptic Problems with Regular and  $L^1$  Data.* *Portugal. Math. (N.S.).* Vol. 72, Fasc. 4, pages 357–391, 2015.
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- 30) Randolph C. Rach, **Lazhar Bougoffa, Ammar Khanfer:** *Approximate Analytic Solutions for the Influence of Mass Flux on Mixed Convection in a Saturated Porous Medium.* *Appl. Math. Inf. Sci.* Vol. 9, No. 6, pages 1-10, 2015.
- 31) S. Dhawana, **Samir kumar bhowmik**, Sheo kumar: *Galerkin-Leastsquare b-Spline approach toward advection–Diffusion equation.* *Applied Mathematics and Computation.* Vol. 261, pages 128–140, 2015.

- 32) **Samer Al-Ashhab:** *A Curvature-Unified Equation for a Non-Newtonian Power-Law Fluid Flow.* *Int. J. Adv. Appl. Math. And mech.* Vol. 2, No. 3, pages 72 – 77, 2015.
- 33) **Samer Al-Ashhab:** *Parameter Variation in a Third Order Singular Boundary Value Problem.* *Int. J. Open Problems Compt. Math.* Vol. 8, No. 1, pages 57-65, 2015.
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- 39) Fethi Bin Muhammad Belgacem, Vartika Gulati, Pranay Goswami, **Abdullah Aljoujee:** *A treatment of generalized fractional differential equations: Sumudu transform series expansion solutions, and applications.* *Fractional dynamics*, pages 369–379, De Gruyter Open, Berlin, 2015.
- 40) **M. M. Khader**, Ahmed M. Megahed: *Approximate solutions for the flow and heat transfer due to a stretching sheet embedded in a porous medium with variable thickness, variable thermal conductivity and thermal radiation using Laguerre collocation method.* *Appl. Appl. Math.*, 10, no. 2, pages 817–834, 2015.
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- 42) **M. M. Khader**, M. Adel: *Numerical treatment of the fractional SIRC model and influenza A using generalized Euler method*. **J. Mod. Methods Numer. Math.** 6 , no. 1, pages 44–56, 2015.
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