Publications

Publications

1. *New Approach To A Generalized Fractional Integral,* Applied Mathematics and Computation, Vol 218, Issue 3, p 860-865, 2011. (Access)
2. *New Technique for Text Data Compression*, Proceedings of IEEE International Conference on Computer, Consumer and Control, 2012 in Taichung, Taiwan, p 405 - 409. (Access [1]) or (Access [2]) (Conference website [3])
3. *Existence and Uniqueness results for the Generalized Fractional Differential Equations,* 5th IFAC Symposium on Fractional Differentiation and Its Applications, Nanjing, China, 2012. (Website)
4. *The Formulation of Generalized Fractional Euler-Lagrange Equation*, 5th IFAC Symposium on Fractional Differentiation and Its Applications, Nanjing, China, 2012. (Website)
5. *New Approach to Generalized Fractional Derivatives*, to appear
6. *Mellin Transforms of the Generalized Fractional Integrals and Derivatives*, to appear
7. *A New Family of Sequences I*, Submitted for publication (2013).
8. *A New Family of Sequences II,* Submitted for publication (2013).
9. *New Random Number Generators Using Nonlinear Functions I,* Submitted for publication (2013).
10. *A Novel Color Image Encryption Scheme Using Fractional Derivatives,* Submitted for publication (2013).
11. (with Makrogiannis) *A Calculation Based Approach to Real-Time Signature Verification,* in preparation

Books and Journal Articles that cite my research work

Books

1. *Fractional Calculus: An Introduction for Physicists*, R Herrmann, World Scientific, 2011

Journal Papers

1. S. Gaboury, R. Tremblay, and B. Fugère, *Some relations involving a generalized fractional derivative operator*, Journal of Inequalities and Applications (Springer), 2013:167. Access [4]

2. S. Pooseh, R. Almeida, and D. Torres*, Expansion Formulas in Terms of Integer-Order Derivatives for the Hadamard Fractional Integral and Derivative*, Numerical Functional Analysis and Optimization, Vol 33, Issue 3, 2012, p301-319. Access [5]

3. T. Odzijewicz, A. Malinowska, and D. Torres, *Fractional Calculus of Variations in Terms of a Generalized Fractional Integral with Applications to Physics,* Abstract and Applied Analysis*,* Vol 2012 (2012), Article ID 871912. Access [6]

4. A. G. Butkovskii, S. S. Postnov, E. A. Postnova, *Fractional integro-differential calculus and its control-theoretical applications. I. Mathematical fundamentals and the problem of interpretation,* Automation and Remote Control (Springer), Vol 74, Issue 4, 2013, p543-574. Access [7]

5. M. A. Noor, M.U. Awan, K. I. Noor, *On Some Inequalities for Relative Semi-Convex Functions,* Journal of Inequalities and Applications (Springer), 2013:332*.* Access [8]

6. T. Odzijewicz, A. B. Malinowska, D. F. M. Torres, *A Generalized Fractional Calculus of Variations*, Control and Cybernetics , 2013. Access [9]

7. S. S. Nayak, S. P. Sahoo, R. Matta, S.K. Pattanayak, *A Modified Approach to Lossless Data Compression Method.* IJREISS, Vol 2, Issue 11 (Nov 2012), ISSN: 2250-0588. Access

8. I. Nesiolovskiy, A. Nesiolovskiy, *Binary-Ternary Compressing Data Coding*. arXiv:1201.5603 [10] [cs.IT] (2012).

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[2] http://www.computer.org/csdl/proceedings/is3c/2012/4655/00/4655a405-abs.html
[3] http://is3c2012.ncuteecs.org/
[4] http://www.journalofinequalitiesandapplications.com/content/pdf/1029-242X-2013-167.pdf
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[9] http://arxiv.org/abs/1304.5282
[10] http://arxiv.org/abs/1201.5603