

LIST OF PUBLICATIONS

- 1) F. Merdivenci Atıcı, F. Ekiz and A. Lebedinsky, Cagan Type Rational Expectation Model on Complex Discrete Time Domains, *European Journal of Operational Research*, doi: 10.1016/j.ejor.2014.02.028, to appear.
- 2) F. Merdivenci Atıcı and Fang Wu, Existence of Solutions for Nonlinear Fractional Difference Equations with Initial Conditions, *Dynamic Systems and Applications*, Special issue honoring Prof. John Greaf, to appear.
- 3) F. Merdivenci Atıcı and Nihan Acar, Exponential Functions of Discrete Fractional Calculus, *Applicable Analysis and Discrete Mathematics*, Vol. 7, (2013), no.2.
- 4) F. Merdivenci Atıcı, A. Lebedinsky and F. Uysal, Inventory Model of Deteriorating Items on Non-periodic Discrete-Time Domains, *European Journal of Operational Research*, 230(2013), pp.284–289.
- 5) F. Merdivenci Atıcı, D. C. Biles, Dynamic Equations with Rational Expectations on Time Scales, *Int. J. of Res. and Rev. in Appl. Sci.*, Vol. 15, 1(2013), pp. 60–65.
- 6) F. Merdivenci Atıcı and Thabet Abdeljawad, On the Definitions of Nabla Fractional Operators, *Abstract and Applied Analysis*, 2012, Article ID 406757, 13 pages.
- 7) F. Merdivenci Atıcı and A. Almushraff, On A Class of Fractional Differential Equations, *Communications in Applied Analysis*, 16(2012), no.3, pp. 423–432.
- 8) F. Merdivenci Atıcı and P. W. Eloe, Gronwall's Inequality in Discrete Fractional Calculus, *J. Computers and Mathematics with Applications*, 64 (2012), pp. 3193–3200.
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- 11) F. Merdivenci Atıcı, D. C. Biles and A. Lebedinsky, A Utility Maximization Problem on Multiple Time Scales, *International Journal of Dynamical Systems and Differential Equations*, Special issue on Dynamic Equations on Time Scales, Vol. 3, 1-2(2011), pp. 38–47.
- 12) F. Merdivenci Atıcı and Paul W. Eloe, Linear Systems of Fractional Nabla Difference Equations, *The Rocky Mountain Journal of Mathematics*, Special issue honoring Prof. Lloyd Jackson, Vol. 41, 2(2011), pp. 353–370.
- 13) F. Merdivenci Atıcı, D. C. Biles, The Stochastic Ito Integral on Time Scales, *PanAmerican Mathematical Journal*, 20(2010), No.4, pp. 45-56.

- 14) F. Merdivenci Atıcı and Sevgi Şengül, Modeling with Fractional Difference Equations, *Journal of Mathematical Analysis and Applications*, 369(2010), pp. 1–9.
- 15) F. Merdivenci Atıcı and P. W. Eloe, Discrete Fractional Calculus with the Nabla Operator, *Electronic Journal of Qualitative Theory of Differential Equations*, Spec. Ed I, 2009, No.3, pp.1-12.
- 16) F. Merdivenci Atıcı and C. S. McMahan, A comparison in the theory of calculus of variations on time scales with an application to the Ramsey model, *Nonlinear Dynamics and Systems Theory*, Vol. 9, 1(2009), pp. 1-10.
- 17) F. Merdivenci Atıcı and P. W. Eloe, Initial value problems in discrete fractional calculus, *Proceedings of the American Mathematical Society*, Vol. 137, 3(2009), pp 981-989.
- 18) F. Merdivenci Atıcı and F. Uysal, The production-inventory model of HMMS on time scales, *Applied Mathematics Letters*, Vol. 21, 3(2008), pp 236-243.
- 19) F. Merdivenci Atıcı and P. W. Eloe, A transform method in discrete fractional calculus, *International Journal of Difference Equations*, Vol. 2, 2((2007), pp 165-176.
- 20) F. Merdivenci Atıcı and P. W. Eloe, Fractional q-Calculus on a Time Scale, *J. Nonlinear Mathematical Physics*, Vol.14, 3(2007), pp 333-344.
- 21) F. Merdivenci Atıcı, A. Cabada and J. Ferreira, First order difference equations with maxima and nonlinear functional boundary value conditions, *J. Difference Equations and Applications*, 12(2006), no. 6, pp 565-576.
- 22) F. Merdivenci Atıcı, D. C. Biles and A. Lebedinsky, An Application of Time Scales to Economics, *Mathematical and Computer Modelling*, 43(2006), pp 718-726.
- 23) F. Merdivenci Atıcı and D. C. Biles, First and second order dynamic equations with impulse, *Journal of Advances in Difference Equations*, 2(2005), pp 119-132.
- 24) F. Merdivenci Atıcı, A. Cabada, C. J. Chyan, B. Kaymakçalan, Nagumo type existence results for second order nonlinear dynamic BVPs, *Nonlinear Analysis*, (2004), Vol.60, no.2, pp 209-220.
- 25) F. Merdivenci Atıcı and S. Gulsan Topal, The generalized quasilinearization method and three-point boundary value problems on time scales, *Applied Math. Letters*, (2005), Vol. 18/5, pp. 577-585.
- 26) F. Merdivenci Atıcı and S. Gulsan Topal, Nonlinear three-point boundary value problems on time scales, *Dynamic Systems and Applications*, 13 (2004), pp 327-337.
- 27) F. Merdivenci Atıcı and D. C. Biles, First order dynamic inclusions on time scales, *J. Mathematical Analysis and Applications*, (2004), Vol. 292/1 pp 222-237.
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34) F. Merdivenci Atıcı and G. Sh. Guseinov, On Green's functions and positive solutions for boundary value problems on time scales, *J. Comput. Appl. Math.*, 141(1-2), (2002), pp: 75-99 .

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- 41) F. Merdivenci Atıcı and G. Sh. Guseinov, Criteria for the stability of second order difference equations with periodic coefficients, *Comm. in Appl. Anal.*, **3** (1999), pp: 166-182.
- 42) F. Atıcı and A. C. Peterson, Inequality for a $2n^{th}$ order difference equation, *PanAmer. Math. J.*, **6** (1996) No: 3, pp: 41-49.
- 43) F. Atıcı and A. C. Peterson, Bounds for positive solutions for a focal boundary value problem, *Computers Math. Applic.*, **36** (1998), No: 10-12, pp: 99-107.
- 44) F. Merdivenci, Positive solutions for focal point problems for $2n^{th}$ order difference equations, *Panamerican Mathematical Journal*, **5** (1995), Number 2, pp: 71-82.
- 45) F. Merdivenci, Green's matrices and positive solutions of a discrete boundary value problem, *Panamerican Mathematical Journal*, **5** (1995), Number 1, pp: 25-42.
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