

LIST OF PUBLICATIONS

- 1) F. Merdivenci Atici and A. Almushraff, On A Class of Fractional Differential Equations, *Communications in Applied Analysis*, accepted (2012).
- 2) F. Merdivenci Atici and P. W. Eloe, Gronwall's Inequality in Discrete Fractional Calculus, *J. Computers and Mathematics with Applications*, doi: 10.1016/j.camwa.2011.11.029 (in press).
- 3) F. Merdivenci Atici and N. Turhan, Sequential Decision Problems on Isolated Time Domains, *J. Mathematical Analysis and Applications*, 388(2012), pp. 753–759.
- 4) F. Merdivenci Atici and P. W. Eloe, Two-Point Boundary Value Problems for Finite Fractional Difference Equations, *J. Difference Equations and Applications*, Vol. 17, 4(2011), pp. 445–456.
- 5) F. Merdivenci Atici, 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.
- 6) F. Merdivenci Atici 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.
- 7) F. Merdivenci Atici, D. C. Biles, The Stochastic Ito Integral on Time Scales, *PanAmerican Mathematical Journal*, 20(2010), No.4, pp. 45-56.
- 8) F. Merdivenci Atici and Sevgi Şengül, Modeling with Fractional Difference Equations, *Journal of Mathematical Analysis and Applications*, 369(2010), pp. 1–9.
- 9) F. Merdivenci Atici 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.
- 10) F. Merdivenci Atici 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.
- 11) F. Merdivenci Atici and P. W. Eloe, Initial value problems in discrete fractional calculus, *Proceedings of the American Mathematical Society*, Vol. 137, 3(2009), pp 981-989.
- 12) F. Merdivenci Atici and F. Uysal, The production-inventory model of HMMS on time scales, *Applied Mathematics Letters*, Vol. 21, 3(2008), pp 236-243.
- 13) F. Merdivenci Atici and P. W. Eloe, A transform method in discrete fractional calculus, *International Journal of Difference Equations*, Vol. 2, 2((2007), pp 165-176.

- 14) F. Merdivenci Atici and P. W. Elloe, Fractional q-Calculus on a Time Scale, *J. Nonlinear Mathematical Physics*, Vol.14, 3(2007), pp 333-344.
- 15) F. Merdivenci Atici, 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.
- 16) F. Merdivenci Atici, D. C. Biles and A. Lebedinsky, An Application of Time Scales to Economics, *Mathematical and Computer Modelling*, 43(2006), pp 718-726.
- 17) F. Merdivenci Atici and D. C. Biles, First and second order dynamic equations with impulse, *Journal of Advances in Difference Equations*, 2(2005), pp 119-132.
- 18) F. Merdivenci Atici, A. Cabada, C. J. Chyan, B. Kaymakcalan, Nagumo type existence results for second order nonlinear dynamic BVPs, *Nonlinear Analysis*, (2004), Vol.60, no.2, pp 209-220.
- 19) F. Merdivenci Atici 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.
- 20) F. Merdivenci Atici and S. Gulsan Topal, Nonlinear three-point boundary value problems on time scales, *Dynamic Systems and Applications*, 13 (2004), pp 327-337.
- 21) F. Merdivenci Atici and D. C. Biles, First order dynamic inclusions on time scales, *J. Mathematical Analysis and Applications*, (2004), Vol. 292/1 pp 222-237.
- 22) F. Merdivenci Atici, E. Akin-Bohner and B. Kaymakcalan, Lower and upper solutions for two point boundary value problems on time scales, *Chapter for a book on time scales edited by M. Bohner and A. C. Peterson Advances in dynamic equations on time scales*, 165-188, Birkhauser Boston, Boston, MA, 2003.
- 23) F. Merdivenci Atici, A. Cabada and V. Otero-Espinar, Multiplicity and nonexistence of positive solutions to a discrete periodic boundary value problem, *J. Difference Equations and Applications*, (2003) Vol. 9, no. 9, pp. 765-775.
- 24) F. Merdivenci Atici and A. Cabada, Existence and uniqueness results for discrete second order periodic boundary value problems, *Computers Math. Applic.*, 45 (2003), pp. 1417-1427.
- 25) F. Merdivenci Atici and E. Akin-Bohner, A quasilinearization approach for two point nonlinear boundary value problems on time scales, *The Rocky Mountain Journal of Mathematics*, 35(2005) Number:1, pp. 19-46.
- 26) F. Merdivenci Atici, A. Cabada and J. B. Ferreira, Existence and comparison results for first order periodic implicit difference equations with maxima, *J. Differ. Equations Appl.*, 8(4), (2002), pp:357-369.
- 27) F. Merdivenci Atici, P. W. Elloe and B. Kaymakcalan, The quasilinearization method for boundary value problems on time scales, *J. Mathematical Analysis and*

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- 28)** F. Merdivenci Atici 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 .
- 29)** F. Merdivenci Atici and G. Sh. Guseinov, Positive solutions for nonlinear differential equations with periodic boundary conditions, In *Conference Proceeding of the Third International Conference On Dynamic Systems and Applications*, Atlanta, 1999. Dynamic Publishers.
- 30)** F. Merdivenci Atici, G. Sh. Guseinov and B. Kaymakcalan, Stability criteria for dynamic equations on time scales with periodic coefficients, In *Conference Proceeding of the Third International Conference On Dynamic Systems and Applications*, Atlanta, 1999. Dynamic Publishers.
- 31)** F. Merdivenci Atici and G. Sh. Guseinov, On the existence of positive solutions for nonlinear differential equations with periodic boundary conditions, *J. Comput. Appl. Math.*, **132** (2001), pp:341-356.
- 32)** F. Merdivenci Atici , G. Sh. Guseinov and B. Kaymakcalan, On Lyapunov inequality in stability theory for Hill's equation on time scales, *J. Inequal. Appl.*, **5** (2000), pp: 603-620.
- 33)** F. Merdivenci Atici, Existence of positive solutions of nonlinear discrete Sturm-Liouville problems, *Math. Comput. Modelling.*, **32** (2000), pp: 599-607.
- 34)** F. Merdivenci Atici and G. Sh. Guseinov, Positive periodic solutions for nonlinear difference equations with periodic coefficients, *J. Math. Anal. Appl.*, **232** (1999), pp: 166-182.
- 35)** F. Merdivenci Atici 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.
- 36)** F. Atici and A. C. Peterson, Inequality for a $2n^{th}$ order difference equation, *PanAmer. Math. J.*, **6** (1996) No: 3, pp: 41-49.
- 37)** F. Atici 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.
- 38)** F. Merdivenci, Positive solutions for focal point problems for $2n^{th}$ order difference equations, *Panamerican Mathematical Journal*, **5** (1995), Number 2, pp: 71-82.
- 39)** F. Merdivenci, Green's matrices and positive solutions of a discrete boundary value problem, *Panamerican Mathematical Journal*, **5** (1995), Number 1, pp: 25-42.
- 40)** F. Merdivenci, Two positive solutions of a boundary value problem for difference equations, *Journal of Difference Equations and Applications*, **1** (1995), pp: 263-270.