

## CURRICULUM VITAE

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### **Ferhan Merdivenci Atıcı**

Department of Mathematics  
Western Kentucky University  
1906 College Heights Boulevard, #11078  
Bowling Green, Kentucky 42101-3576  
Office Phone: (270) 745-6229  
e-mail: ferhan.atici@wku.edu

### UNIVERSITY EDUCATION

- Ph.D (Mathematics) University of Nebraska at Lincoln, 1995.
- M.S (Mathematics) University of Nebraska at Lincoln, 1993.
- B.S (Mathematics) Ege University, 1989.

### ACADEMIC EXPERIENCE

- Professor, Department of Mathematics, Western Kentucky University, 2011-present.
- Associate Professor, Department of Mathematics, Western Kentucky University, 2005-2011.
- Assistant Professor, Department of Mathematics, Western Kentucky University, 2003-2005.
- Visiting Assistant Professor, Department of Mathematics, Western Kentucky University, 2001-2003.
- Associate Professor, Department of Mathematics, Ege University, 1999-2002.
- Assistant Professor, Department of Mathematics, Ege University, 1996-1999.
- Visiting one year position, Department of Mathematics and Statistics, University of Nebraska at Lincoln, 1995-1996.
- Teaching Assistant, Department of Mathematics and Statistics, University of Nebraska at Lincoln, 1991-1995.
- Teaching Assistant, Department of Mathematics, Ege University 1989-1990.

## CERTIFICATES

- Certificate to teach at High School. (A Certificate was earned after completing 12 months of training at Ege University) 1989.
- Certificate to teach at College Level. (A Certificate was earned after completing 9 months of training at University of Nebraska) 1991.

## DISSERTATION TITLE

Fixed Points Techniques in Cone Theory with Applications to Difference Equations.  
Supervisor: Dr. Allan C. Peterson

## CURRENT FIELDS OF INTEREST

Difference Equations, Differential Equations, Calculus on Time Scales, Dynamic Equations and Their Applications to Economics, Fractional Calculus and Their Applications to Medical Sciences.

## SUPERVISED THESIS

- Master Thesis: “Discrete Fractional Hermite-Hadamard Inequality,” Aykut Arslan, 2017.
- Master Thesis: “Stability of Linear Difference Systems in Discrete and Fractional Calculus ,” Aynur Er, 2017.
- Master Thesis: “Analysis of Discrete Fractional Operators and Discrete Fractional Rheological Models,” Meltem Uyamk, 2015.
- Master Thesis: “Green’s Functions of Discrete Fractional Boundary Value Problems and Application of Discrete Fractional Calculus to a Pharmacokinetics Model,” Sutthirut Charoenphon, 2014.
- Master Thesis: “Anayzing and Solving Nonlinear Stochastic Dynamic Models on Non-periodic Discrete Time Domains”, Gang Cheng, 2013.
- Master Thesis: “Nabla Fractional Calculus and its Application in Analyzing Tumor Growth of Cancer”, Fang Wu, 2012.
- Master Thesis: “Development of Nabla Fractional Calculus and A New Approach to Data Fitting in Time Dependent Cancer Therapeutic Study”, Nihan Acar, 2012.
- Master Thesis: “Cagan Type Rational Expectation Models on Time Scales with Their Applications to Economics”, Funda Ekiz, 2011.
- Master Thesis: “Development of Fractional Trigonometry and An Application of Fractional Calculus to Pharmacokinetic Model”, Amera Almusharff, 2011.
- Master Thesis: “Deterministic and Stochastic Bellman’s Optimality Principles on Isolated Time Domains and Their Applications in Finance”, Nezihe Turhan, 2011.

- Master Thesis: “Discrete Fractional Calculus and Its Applications to Tumor Growth”, Sevgi Şengül, 2010.
- Master Thesis: “Fractional Calculus: Definitions and Applications”, Joseph Kimeu, 2009.
- Master Thesis: “Calculus of Variations on Time Scales and its Applications to Economics”, Christopher S. McMahan, 2008.
- Master Thesis: “Lebesgue Nabla Measure and Riemann Nabla Integration”, Heather Bjorum, 2005.
- Master Thesis: “Analysis of Economic Models Through Calculus of Variations”, Raman Arora, 2005.
- Master Thesis: “Bounds of eigenvalues which guarantee the existence of positive solutions”, Sibel Delibalci, 1999.
- Ph.D Thesis: “Calculus and Dynamic Equations on Time Scales”, Serap Gulsan Topal, 2001.

#### DIRECTED SENIOR PROJECTS

- “Modeling with Difference Equations”, by Sarah Angelle, WKU, in progress.
- “Mittag-Leffler Functions of Fractional Calculus”, by Scott Greschel, WKU, Spring 2014.
- “The best way to shoot a free throw”, by Blake Martin, WKU, Spring 2010.
- “Fractional q-Fourier Transform: A Fresh Look at a Staple Integral Transform”, by Landon Oakes, WKU, Spring 2010.
- “A Quasilinearization Method and Its Applications in Physics”, by Britney Barrow, WKU, Spring 2009.
- “Math and Dance: Contra and Square Dancing”, by Emily Hartman, WKU, Spring 2008.
- “Government Funded Market Manipulations”, by Nathan Russell, WKU, Spring 2007.
- “Quantum Calculus: A beginning of a closer look at one type of calculus”, April Williams, WKU, Fall 2006.
- “Fractional Calculus”, Nicole Zirkelbach, WKU, Fall 2006.

#### AWARDS

- 2015 Women in Science and Engineering Award.
- 2011 University Faculty Award, Research/Creativity.
- 2011 Ogden College Faculty Award, Research/Creativity.
- 2006 Recognition of superior achievement in the field of mathematics, Pi Mu Epsilon, Kentucky Beta Chapter.
- 1995 Graduate award winner (Emeritus Faculty Fellowships) Department of Mathematics and Statistics, University of Nebraska at Lincoln.
- 1991-1995 Teaching Assistantship, Department of Mathematics and Statistics, University of Nebraska at Lincoln.

- 1990 Teaching Assistantship, Department of Mathematics, Ege University.
- 1989 Honorary BS degree, First Place in the Science College and in the Mathematics Department, Ege University.

## INTERNAL AND EXTERNAL GRANTS

### External Grants

- “Parameter Estimations of Sigmoidal Models of Cancer”, KSEF-2488-RDE-014, July 2011- June 2013. (60,000.00 Dollars )

### Internal Grants

- “Parameter Estimations of Sigmoidal Models of Cancer Using Fractional h-difference Operators,” BISC(Bioinformatics and Information Science Center) Graduate Student Research Assistantship, August 2012-May 2013. (5,000.00 Dollars)
- “ Sigmoidal Models of Tumor Growths: The Gompertz Model”, BISC Graduate Student Research Assistantship, January 2011-May 2011. (2,750.00 Dollars)
- Summer Faculty Scholarship Award, May 2009- Sept. 2009. (6,000.00 Dollars)

### Travel Grants

- Ogden College of Science and Engineering WISE award Travel Grant (up to 2000 Dollars)
- AWM-NSF (Association of Women in Mathematics-NSF) Travel Grant (Awarded) (1270 Dollars)
- AWM-NSF (Association of Women in Mathematics-NSF) Travel Grant, March 2007. (543 Dollars)
- Ogden College of Science Travel Fund, Jan. 2004. (500 Dollars)

## UNIVERSITY SERVICE

### DEPARTMENTAL COMMITTEES

- Sabbatical Committee, Aug. 2016 - present.
- Scholarship/Award Committee, Aug. 2016 - present.
- Graduate Studies Committee, Aug.2016-present.
- The Calculus Textbook Committee, Spring 2017.
- Graduate Studies Committee, Chair, Aug.2013 - Aug.2016.
- Strategic Planning Committee, Aug.2013 - Aug 2016.
- The Calculus Textbook Committee, Spring 2014.
- Graduate Studies Committee, 2003 - 2013.
- Department Chair Hiring Committee, 2011 - 2012.
- Colloquium/Symposium Committee, 2006 - 2012.
- Scholarship/Award Committee, 2009 - 2013.

- Math 126- Math 227 Curriculum Committee, Chair, 2008 - 2009.
- Graduate Studies Committee, Chair, Spring 2009
- Advisory Committee, representing Associate Professors, 2006 - 2008.
- KYMAA Local Arrangements Committee, 2007 - 2008.
- The Graph Theory Tenure-Track Position Hiring Committee, Chair, 2006 - 2007.
- The PDE Tenure-Track Position Hiring Committee, Chair, 2006 - 2007.
- 109 Textbook Selection Committee, 2006 - 2007.
- Revision of Tenure and Promotion Document Committee, 2006 - 2007.
- Department Chair Hiring Committee, 2005 - 2006.
- Tenure-Track Position Hiring Committee 2005 - 2006.
- Department representative of “Doers and Deers”, Spring 2006.
- AMS Local Arrangements Committee, 2003 - 2005
- Organizer of 24th Annual Mathematics Symposium at WKU, 2004.
- Co-Organizer of 23rd Annual Mathematics Symposium at WKU, 2003.

#### COLLEGE COMMITTEES

- Ogden College WISE Committee, co-advisor, Sept. 2016 - present.
- Tenure-Promotion Committee, Spring 2016.
- Ogden College Graduate Curriculum Committee, Sept.2013 - Aug.2016.
- Ogden College Conference and Seminar Committee, 2012 - 2013.
- Executive Committee, The Bio-informatics and Information Science Center, May 2006 - present.
- Ogden/Ashland Scholarship Programs Committee, Chair, 2011 - 2013.
- Ogden College Award Committee, Spring 2012.
- Ogden College Undergraduate Curriculum Committee Aug.2009 - Aug.2011.
- BISC Committee for Graduate Assistantship, Nov.2010 - present.
- Ogden College Faculty Awards Committee, Spring 2010.
- Advisory Committee, department representative, 2007 - 2008.
- Consultation Committee, The Bioinformatics and Information Science Center, May 2006 - 2007.

#### UNIVERSITY COMMITTEES

- “Recruiting Trip to India” meeting organized by the Graduate School, Department Representative, August, 2015.
- Graduate Council, May 2013 - May 2015.
- Student Research Grant Committee (from the Graduate Council), Aug 2013 - Aug 2014.
- University Faculty Awards Committee, March-April, 2014.
- University Faculty Awards Committee, March-April, 2013.
- University Faculty Awards Committee, March-April, 2012.
- Graduate Council Representative from Ogden College of Science and Engineering (alternative member), May 2008- May 2009.
- University Senate, May 2004- May 2006.

- The Faculty Welfare and Professional Responsibilities Committee (from the Senate), May 2004- May 2006.
- Chair of the Salary Survey subcommittee (from The Faculty Welfare and Professional Responsibilities Committee), May 2004- May 2006.

## PROFESSIONAL ACTIVITIES

- Faculty advisor for the WKU American Mathematical Society (AMS) Student Chapter, March 2, 2015- present.
- Member of the Scientific Committee of the 2014 International Conference on Pure Mathematics - Applied Mathematics, Venice, Italy, March 15-17, 2014.
- Member of the International Scientific Committee of the 1st WSEAS(World Scientific and Engineering Academy and Society) International Conference on Pure Mathematics (PUMA '14, Tenerife, Spain, January 10-12, 2014.
- Judge in the poster presentation sessions of “The 43rd Annual WKU Student Research Conference,” March, 2013.
- Judge in the poster presentation sessions of “The 42nd Annual WKU Student Research Conference,” March, 2012.
- Helper in “Wind Power” class at the event “Girls in Science Day”, April 16, 2011.
- Judge in the paper presentation sessions of “The 41st Annual WKU Student Research Conference,” March, 2011.
- Judge in the paper presentation sessions of “The 40th Annual WKU Student Research Conference,” February 27, 2010.
- Organizer of the session “Time Scales: Theory and Applications,” AMS Sectional Meeting at Miami University-Ohio, March 16-17, 2007.
- Organizer and Coordinator in the “Practical Problem Solving” event for High School students, The Kentucky Science Olympiad State Tournament, April 2006.
- One of the organizer of the special session in AMS sectional meeting which was at WKU on March 18-19, 2005.
- The Kentucky Science Olympiad State Tournament, Organizer of ”Data Gathering Event”, March 2004.
- Organizer of 24th Annual Mathematics Symposium at WKU, 2004.
- The Kentucky Science Olympiad State Tournament, Organizer of ”Data Gathering Event”, March 2003.
- 2002 Intel International Science and Engineering Fair, Grand Awards Judge for Mathematics.

## EDITORIAL BOARD MEMBER

- Reviewer for Mathematical Reviews (Jan 2005 - present)
- Associate Editor of the Journal “The International Journal of Applied Mathematics Statistics”(IJAMAS). (Sept 2006-present)

- Member of the Editorial Board of the Journal: “Abstract and Applied Analysis” (AAA). (Jan 2007-May 2017.)
- Member of the Editorial Board of the Journal: International Journal of Mathematics and Computation. (Sept 2009- present)
- Member of the Editorial Board of the Journal: Journal of Black Sea Science and Engineering. (Feb 2011- present)
- Member of the Editorial Board of the Journal: Fractional Differential Calculus. (March 2012- present)
- Member of the Editorial Board of the Journal: Communication in Fractional Calculus. (Nov 2012-present)
- Member of the Editorial Board of the Journal: International Journal of Mathematical Models and Methods in Applied Sciences. (Oct. 2013-present)
- Member of the Editorial Board of the Journal: Progress in Fractional Differentiation and Applications. (Sep. 2014-present)
- Member of the Editorial Board of the Journal: International Journal of Dynamic Systems and Differential Equations. (Oct. 2014- present)
- Associate Editor of the Journal: Advances in Difference Equations. (June 2015-present)

#### CONTRIBUTED TALKS AT CONFERENCES

- UT-KBIRN Bioinformatics Summit 2017, April 20-22, 2017, Montgomery Bell State Park, TN. (Poster Presentation)
- The Wolfram Technology Conference, Oct. 18-21, 2016, Urbana-Champaign, Illinois.
- The 40th SIAM Southeastern Atlantic Section Conference (SIAM-SEAS), March 11-13, 2016, Athens, Georgia, (**Invited**)
- The 8th Annual Symposium on Biomathematics and Ecology Education and Research, Oct 9-11, 2015, Normal, Illinois.
- The 8th Annual Symposium on Biomathematics and Ecology Education and Research, Oct 9-11, 2015, Normal, Illinois. (Poster Presentation)
- International Conference on Applied Analysis and Mathematical Modeling, June 8-12, 2015, Istanbul, Turkey.
- The Seventh International Conference on Dynamic Systems and Applications, May 27- 30, 2015, Atlanta, Georgia. (**Invited**)
- The 34th Southeastern-Atlantic Regional Conference on Differential Equations, Oct. 11-12, 2014, Memphis, Tennessee.
- 10th Kentucky Innovation and Entrepreneurship 2014 Conference, Louisville-KY, September 5th, 2014. (Poster Presentation)
- UT-KBIRN Bioinformatics Summit 2014, April 11-13, 2014, Cadiz, Kentucky. (Poster Presentation)
- 2014 Annual Meeting of KYMAA, March 28-29 2014, Murray State University, Murray, Kentucky.

- 9th Kentucky Innovation and Entrepreneurship 2013 Conference, Lexington-KY, August 29th, 2013. (Poster Presentation)
- New Trends in Differential and Difference Equations, Chattanooga, TN, March 15-17, 2013. (**Invited**)
- International Symposium on Biomathematics and Ecology Research and Education, St. Louis-Missouri, Nov 10-11, 2012.
- International Workshop on Dynamic Systems, Ankara-Turkey, June 26-28th, 2012. (**Invited**)
- 8th Kentucky Innovation and Entrepreneurship 2012 Conference, Louisville-KY, June 1st, 2012. (Poster Presentation)
- AMS Sectional Meeting at University of Nebraska, Lincoln-Nebraska, Oct. 14-16, 2011. (**Invited**)
- Second International Symposium on Computing in Science and Engineering, Kusadasi, Izmir-Turkey, June 1-4, 2011.
- The 6th International Conference: 2010 Dynamical Systems and Applications, Antalya-Turkey, July 10-14, 2010. (**Key Note Speaker**)
- AMS Sectional Meeting at Baylor University, Waco-Texas, Oct. 16-18, 2009. (**Invited**)
- International Symposium on Biomathematics and Ecology Research and Education, Izmir - Turkey, June 13-17, 2009.
- 14th International Conference on Difference Equations and Applications, Istanbul-Turkey, July 21-25, 2008. (**Invited**)
- The 27th Southeastern-Atlantic Regional Conference on Differential Equations, Oct 2007, Murray, Kentucky.
- International Conference: 2007-Dynamic Systems and Applications, July 2007, Kusadasi-Izmir, Turkey.
- AMS Sectional Meeting at Miami University-Ohio, March 16-17, 2007. (**Session Organizer and Presenter**)
- 2006 Annual Meeting of KYMAA, March 2006, Centre College, Danville, Kentucky.
- The 25th Southeastern-Atlantic Regional Conference on Differential Equations, Oct 2005, Dayton, Ohio.
- Spring Southeastern Sectional Meeting of AMS at WKU, Bowling Green, KY, March 18-19, 2005. (**Session Organizer**)
- AMS National Meeting, Jan 2005, Atlanta, Georgia. (**Invited**)
- International Conference: 2004-Dynamic Systems and Applications, July 2004, Antalya-Turkey.
- AMS National Meeting, Jan 2004, Phoenix- Arizona. (**Invited**)
- AMS Section Meeting, Bloomington-Indiana, April 2003.
- Workshop on Time Scales, University of Dayton, Dayton-Ohio, September 2002. (**Session Organizer and Presenter**)
- International Conference on Dynamic Systems and Applications, Atlanta-Georgia, May 1999.
- XI. National Mathematics Symposium, Isparta - Turkey, September 1998.
- Fourth International Conference on Difference Equations and Applications, Poznan - Poland, August 1998.



- International Conference Functional Differential-Difference Equations and Applications, Antalya - Turkey, August 1997.
- Rocky Mountain Mathematics Consortium Summer Conference Difference Equations and Their Applications, University of Wyoming, Laramie-Wyoming, July 1997.
- 24. Midwest Differential Equations Conference, University of Nebraska-Lincoln, Nebraska, October 1995.
- 23. Midwest Differential Equations Conference, University of Oklahoma, Oklahoma, October 1994.

## LIST OF PUBLICATIONS

- 1) F. M. Atıcı, M. Atıcı, M. Belcher, and D. Marshall, A New Approach for Modeling with Discrete Fractional Equations, *Fundamenta Informaticae*, 151(2017), 313–324. doi:10.3233/FI-2017-1494
- 2) F. M. Atıcı, Gang Cheng, and Alex Lebedinsky, A Nonlinear Stochastic Growth Model on Discrete Time Domains, *J. Difference Equations and Applications*, 22(2016), issue 11, 1732–1746. doi: 10.1080/10236198.2016.1237509
- 3) A. Arslan and F. M. Atıcı, Discrete Hermite-Hadamard Inequality and Its Applications, *Applicable Analysis and Discrete Mathematics*, 10(2016), 366–377. doi:10.2298/AADM160617013A
- 4) F. M. Atıcı and Hatice Yaldiz, Convex Functions on Discrete Time Domains, *Canadian Mathematical Bulletin*, **59** (2) (2016), 225–233.
- 5) F. M. Atıcı, M. Atıcı, W. M. Hrushesky, and N. Nguyen, Modeling Tumor Growth with Basic Functions of Fractional Calculus, *Progress in Fractional Differentiation and Applications*, **1**(2015), No.4, 1–13.
- 6) F. Merdivenci Atıcı and Meltem Uyanık, Analysis of Discrete Fractional Operators, *Applicable Analysis and Discrete Mathematics*, Vol. 9, (2015), 139–149.
- 7) F. Merdivenci Atıcı and Daniel C. Biles, Further Development of Stochastic Calculus on Time Scales, *PanAmerican Mathematical Journal*, 25(2015), No.2, 13–24.
- 8) F. Merdivenci Atıcı and P. W. Elloe, Linear Forward Fractional Difference Equations, *Communication in Applied Analysis*, Special issue honoring Prof. Allan Peterson, 19(2015), 31–42.
- 9) 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, 23(2014), 265–276.
- 10) F. Merdivenci Atıcı, F. Ekiz, and A. Lebedinsky, Cagan Type Rational Expectation Model on Complex Discrete Time Domains, *European Journal of Operational Research*, 237(2014), 148–151.

- 11) F. Merdivenci Atıcı and Nihan Acar, Exponential Functions of Discrete Fractional Calculus, *Applicable Analysis and Discrete Mathematics*, Vol. 7, (2013), no.2, 343–353.
- 12) 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.
- 13) 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.
- 14) F. Merdivenci Atıcı and Thabet Abdeljawad, On the Definitions of Nabla Fractional Operators, *Abstract and Applied Analysis*, 2012, Article ID 406757, 13 pages.
- 15) F. Merdivenci Atıcı and A. Almushraff, On A Class of Fractional Differential Equations, *Communications in Applied Analysis*, 16(2012), no.3, pp. 423–432.
- 16) 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.
- 17) F. Merdivenci Atıcı and N. Turhan, Sequential Decision Problems on Isolated Time Domains, *J. Mathematical Analysis and Applications*, 388(2012), pp. 753–759.
- 18) F. Merdivenci Atıcı 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.
- 19) 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.
- 20) 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.
- 21) F. Merdivenci Atıcı, D. C. Biles, The Stochastic Ito Integral on Time Scales, *PanAmerican Mathematical Journal*, 20(2010), No.4, pp. 45-56.
- 22) F. Merdivenci Atıcı and Sevgi Şengül, Modeling with Fractional Difference Equations, *Journal of Mathematical Analysis and Applications*, 369(2010), pp. 1–9.
- 23) 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.

- 24) 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.
- 25) 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.
- 26) 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.
- 27) 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.
- 28) 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.
- 29) 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.
- 30) 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.
- 31) 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.
- 32) 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.
- 33) 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.
- 34) 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.
- 35) 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.
- 36) F. Merdivenci Atıcı, E. Akin-Bohner, and B. Kaymakçalan, 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.
- 37) F. Merdivenci Atıcı, 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.

- 38)** F. Merdivenci Atıcı and A. Cabada, Existence and uniqueness results for discrete second order periodic boundary value problems, *Computers Math. Applic.*, 45 (2003), pp. 1417-1427.
- 39)** F. Merdivenci Atıcı 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.
- 40)** F. Merdivenci Atıcı, 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.
- 41)** F. Merdivenci Atıcı, P. W. Eloe, and B. Kaymakcalan, The quasilinearization method for boundary value problems on time scales, *J. Mathematical Analysis and Applications*, 276, 2002, pp:357-372.
- 42)** 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 .
- 43)** F. Merdivenci Atıcı 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.
- 44)** F. Merdivenci Atıcı, 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.
- 45)** F. Merdivenci Atıcı 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.
- 46)** F. Merdivenci Atıcı, 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.
- 47)** F. Merdivenci Atıcı, Existence of positive solutions of nonlinear discrete Sturm-Liouville problems, *Math. Comput. Modelling.*, **32** (2000), pp: 599-607.
- 48)** F. Merdivenci Atıcı and G. Sh. Guseinov, Positive periodic solutions for nonlinear difference equations with periodic coefficients, *J. Math. Anal. Appl.*, **232** (1999), pp: 166-182.
- 49)** 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.

- 50)** F. Atıci and A. C. Peterson, Inequality for a  $2n^{th}$  order difference equation, *PanAmer. Math. J.*, **6** (1996) No: 3, pp: 41-49.
- 51)** F. Atıci 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.
- 52)** F. Merdivenci, Positive solutions for focal point problems for  $2n^{th}$  order difference equations, *Panamerican Mathematical Journal*, **5** (1995), Number 2, pp: 71-82.
- 53)** F. Merdivenci, Green's matrices and positive solutions of a discrete boundary value problem, *Panamerican Mathematical Journal*, **5** (1995), Number 1, pp: 25-42.
- 54)** F. Merdivenci, Two positive solutions of a boundary value problem for difference equations, *Journal of Difference Equations and Applications*, **1** (1995), pp: 263-270.