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PERSONAL

Date of Birth	20.04.1980
Place of Birth	Diyarbakır, Turkey

EDUCATION

2002 – 2009	Middle East Technical University, Mathematics, Ph.D.
1997 – 2002	Middle East Technical University, Mathematics, B.S.

ACADEMIC POSITIONS

09/2015 – present	Associate Professor, Department of Mathematics, Atılım University, Turkey
11/2010 – 09/2015	Assistant Professor, Department of Mathematics, Atılım University, Turkey
09/2008 – 11/2010	Instructor, Department of Mathematics, Atılım University, Turkey
10/2002 – 08/2008	Research Assistant, Department of Mathematics, Middle East Technical University, Turkey

ADMINISTRATIVE DUTIES

10/2014 – present	Vice Dean of the Faculty of Arts and Science, Atılım University
10/2010 – 10/2014	Vice Chair of the Department of Mathematics, Atılım University

HONORS&AWARDS

1	TÜBİTAK Grant 111T320, 2011 – 2012.
2	“Best PhD. Thesis Award of the Year 2008 – 2009”, Middle East Technical University, 2010.
3	TÜBİTAK Grant 106T418, 2006 – 2008.

RESEARCH INTERESTS

1	Ordinary Differential Equations
2	Impulsive Differential Equations
3	Functional Differential Equations
4	Discontinuous Dynamical Systems

5	Difference equations
6	Approximation Theory
7	q-Calculus

PUBLICATIONS (International Journal Paper)

1	M. U. Akhmet, M. Turan, <i>The differential equations on time scales through impulsive differential equations</i> , Nonlinear Analysis: Theory Methods and Applications 65 (2006) 2043–2060 (SCI).
2	M. U. Akhmet, M. Turan, <i>Differential equations on variable time scales</i> , Nonlinear Analysis: Theory Methods and Applications 70 (2009) 1175–1192 (SCI).
3	M. U. Akhmet, M. Turan, <i>Bifurcation of three-dimensional discontinuous cycles</i> , Nonlinear Analysis: Theory Methods and Applications 71 (2009) e2090–e2102 (SCI).
4	M. U. Akhmet, D. Aruğaslan, M. Turan, <i>Hopf bifurcation for a 3D Filippov system</i> , Dynamics of Continuous, Discrete and Impulsive Systems, Series A: Mathematical Analysis 16 (2009) 759–775.
5	M. U. Akhmet, M. Turan, <i>Bifurcation in a 3D Hybrid system</i> , Communications in Applied Analysis 14 (4) (2010) 311–324.
6	M. U. Akhmet, M. Turan, <i>A remark for dynamic equations on time scales</i> , Journal of Nonlinear Systems and Applications 2 (1-2) (2011) 54–56.
7	S. Ostrovska, M. Turan, <i>On the eigenvectors of the q-Bernstein operators</i> , Mathematical Methods in the Applied Sciences 37 (4) (2014) 562–570 DOI: 10.1002/mma.2814 (SCI-E)
8	M. Akhmet, M. Turan, <i>Bifurcation of discontinuous limit cycles of the Van der Pol equation</i> , Mathematics and Computers in Simulation 95 (2014) 39–54. (SCI-E)
9	M. Turan, <i>The Truncated q-Bernstein Polynomials in the Case $q > 1$</i> , Abstract and Applied Analysis Volume 2014, Article ID 126319, 7 pages, DOI: 10.1155/2014/126319 (SCI-E)
10	S. Ostrovska, A.Y. Özban and M. Turan, <i>How do singularities of functions affect the convergence of q-Bernstein polynomials</i> , Journal of Mathematical Inequalities 9 (1) (2015) 121–136. doi:10.7153/jmi-09-12 (SCI-E)
11	S. Ostrovska and M. Turan, <i>Qualitative results on the convergence of the q-Bernstein polynomials</i> , Carpathian Journal of Mathematics 31 (1) (2015) 105–110. (SCI-E)
12	A. Aksoy and M. Turan, <i>On the dynamics of the non-linear difference equation $x_{n+1} = \alpha + \beta x_{n-1} + x_{n-1}/x_n$</i> , Science Asia 41 (5) (2015) 350–356. doi: 10.2306/scienceasia1513-1874.2015.41.350 (SCI-E)
13	S. Ostrovska, M. Turan, <i>On the powers of Kummer distribution</i> , Kuwait J. Sci. 44 (2) (2017) 1–8. (SCI-E)
14	A. Elbori, M. Turan and K. B. Arıkan, <i>Optimization of Central Pattern Generators</i> , Journal of Engineering and Applied Sciences 12 (5) (2017) 1164–1172. doi: 10.3923/jeasci.2017.1164.1172
15	S. Ostrovska, M. Turan, <i>Fedja's proof of Deepti's inequality</i> , Turk J Math 42 (3) (2018) 1090–1097. doi: 10.3906/mat-1709-14 (SCI-E)
16	A. Elbori, M. Turan, K. B. Arıkan, <i>Evaluation and Optimization of Nonlinear Central Pattern Generators for Robotic Locomotion</i> , Control Engineering and Applied Informatics, 20 (3) (2018) 89–98. (SCI-E)
17	S. Ostrovska and M. Turan, <i>On the Metric Space of the Limit q-Bernstein Operators</i> , Numerical Functional Analysis and Optimization, 40 (2) (2019) 134–146. (SCI-E)
18	S. Ostrovska and M. Turan, <i>q-Stieltjes classes for some families of q-densities</i> , Statistics and Probability Letters, 146 (2019) 118–123. (SCI-E)

19	S. Alwhishi, R. S. Adiguzel, M. Turan, <i>On the limit of discrete q-Hermite I polynomials</i> , Commun. Fac. Sci. Univ. Ank. Ser. A1 Math. Stat. 68 (2), 2019, 2272 – 2282.
20	M. Turan, S. Ostrovska and A. Y. Ozban, <i>Uncorrelatedness sets of discrete random variables via Vandermonde-type determinants</i> , Mathematica Slovaca, 69 (6) (2019) 1459–1470. (SCI-E)

PUBLICATIONS (International Conference Paper)

1	M. U. Akhmet, M. Turan, <i>A new class of differential equations: systems on variable time scales with transition conditions</i> , Proceedings of Dynamic Systems and Applications, Dynamic Publishers, Inc., USA, Volume-5, 2008, pp. 21-27, Edited by G. S. Ladde, N. G. Medhin, Chuang Peng and M. Sambandham.
2	A. Elbori, M. Turan, K. B. Arıkan, <i>Optimization of Central Patterns Generators</i> , ECBA-2017, Vol. 400 - Issue. 37, 1–9. ISBN 978-969-683-209-6
3	A. Eroglu, E. Onur, M. Turan, <i>Density-Aware Outage in Clustered Ad Hoc Networks</i> . NTMS 2018: 1-5. 9th IFIP International Conference on New Technologies, Mobility and Security, NTMS 2018, Paris, France, February 26-28, 2018. IEEE 2018, ISBN 978-1-5386-3662-6. doi:10.1109/NTMS.2018.8328688

CONFERENCE PRESENTATIONS

1	International Conference on Hybrid Systems and Applications, Lafayette, Louisiana, USA, May 22 - May 26, 2006 Talk: The differential equations on time scales with transition conditions
2	Fifth International Conference on Dynamic Systems and Applications, Morehouse College, Atlanta, Georgia, USA, May 30 - June 2, 2007 Talk: Differential equations on variable time scales
3	Fifth World Congress of Nonlinear Analysts, Orlando, Florida, USA, July 2 - July 9, 2008 Talk: Hopf Bifurcation in 3-Dimensional discontinuous dynamical systems
4	Workshop on Hybrid Dynamical Systems, University of Waterloo, Ontario, Canada, July 29 - 31, 2010 Talk: Bifurcation in a 3D Hybrid System
5	Fourth International conference on Neural, Parallel and Scientific Computations, Atlanta, Georgia, USA, August 11 - 14, 2010 Talk: Bifurcation in a 3D Hybrid System
6	XVI. International Conference “Dynamical System Modeling and Stability Investigations” (DSMSI-2013), Department of Complex System Modeling, Faculty Cybernetics, Taras Shevchenko National University of Kiev, Ukraine, May 29 - 31, 2013 Talk: Hopf bifurcation of the Van-Der-Pol equation with variable moments of impacts
7	International Conference on Applied Mathematics and Analysis (ICAMA2016) in memory of Gusein Sh. Guseinov, Department of Mathematics, Atilim University, Ankara, Turkey, July 11 - 13, 2016 Talk: On the dynamics of the non-linear difference equation $x_{n+1} = \alpha + \beta x_{n-1} + x_{n-1}/x_n$

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	71
H-index (ISI Web of Science):	4

COURSES GIVEN

1	MATH 102 Calculus for Management and Economics Students
2	MATH 112 Discrete Mathematics and Combinatorics
3	MATH 135 Mathematical Analysis I
4	MATH 136 Mathematical Analysis II
5	MATH 151 Calculus I
6	MATH 152 Calculus II
7	MATH 157 Extended Calculus I
8	MATH 158 Extended Calculus II
9	MATH 211 Discrete Mathematics with Applications
10	MATH 231 Linear Algebra I
11	MATH 232 Linear Algebra II
12	MATH 251 Advanced Calculus I
13	MATH 252 Advanced Calculus II
14	MATH 274 Complex Variables and Applications
15	MATH 276 Differential Equations
16	MATH 346 Complex Analysis
17	MATH 483 Special Functions of Applied Mathematics
18	MATH 484 Classical Orthogonal Polynomials
19	MATH 486 Mathematical Modeling
20	MATH 564 Impulsive Differential Equations
21	MATH 585 Mathematical Modeling
22	MATH 587 Applied Mathematics
23	MCS 115 Introduction to Computer Science
24	MODES 610 Mathematical Modeling via Differential and Difference Equations

THESES SUPERVISED

1	Aycan Aksoy (MS), <i>On the dynamics of a second order nonlinear difference equation</i> , June 2014, Atilim University
2	Manal Almesbahi (MS), <i>On Properties of q-Bernstein Polynomials</i> , April 2017, Atilim University (Co-Supervisor: Sofiya Ostrovska)
3	Abdalfthah Elbori (PhD), <i>Optimization of Central Pattern Generators</i> , January 2018, Atilim University (Co-Supervisor: Kutluk Bilge Arıkan)