

# **ATILIM UNIVERSITY**

**Faculty of Arts and Science**

**MATHEMATICS DEPARTMENT**

**Publication List**

*(2001-08.02.2008)*

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## Articles in 2007

### Published Articles

- In Science Citation Index

1. **Ümit Aksoy** (with A. O. Çelebi), *Norm estimates of a class of Calderon-Zygmund type strongly singular integral operators*, Integral Transforms and Special Functions, **18**, Number 2, 87-93,(2007).
2. **Ayhan Aydın** (with B. Karasözen), *Symplectic and multi-symplectic methods for coupled Nonlinear Schrödinger equations with periodic solutions*, Computer Physics Communications, **177**, 566-583,(2007).
3. **Anar A. Dosiev** *Quantized Moment Problem*, Comptes Rendus Math., **344** (10), 627-630,(2007).
4. **Anar A. Dosiev**, *A representation theorem for local operator spaces*, Functional Anal. and its Appl., **41** (4), 306-310,(2007).
5. **Burcu Gülmez Temur** (with F.Özbudak), *Fibre Products of Kummer covers and curves with many points*, Applicable Algebra in Engineering, Communication and Computing **18**, no. 5, 433-443,(2007).
6. **Gusein Sh. Guseinov** (with M. Bohner), *Line integrals and Green's formula on time scales*, J. Math. Anal. Appl., **326**, 1124-1141, (2007).
7. **Gusein Sh. Guseinov** (with M. Bohner), *Double integral calculus of variations on time scales*, Comput. Math. Appl., **54**, 45-57, (2007).
8. **Gusein Sh. Guseinov** (with A. Zafer), *Stability criteria for linear periodic impulsive Hamiltonian systems*, J. Math. Anal. Appl., **335**, 1195-1206,(2007).
9. **Gusein Sh. Guseinov** (with M. Bohner), *The convolution on time scales*, Abstr. Appl. Anal., (2007), **Art.ID 58373**, 24pp.
10. **Sofiya Ostrovska**, *The approximation of logarithmic function by  $q$ -Bernstein polynomials in the case  $q > 1$* , Numerical Algorithms, **44**, 69-82, (2007).

11. **Sofiya Ostrovska**, *Positive linear operators generated by analytic functions*, Proc. Indian Acad. Sci. (Math. Sci.), **117**, No.4, 485-493, (2007).
12. **Ahmet Yaşar Özban**, *On the system of rational difference equations  $x_n = \frac{a}{y_{n-3}}$ ,  $y_n = \frac{by_{n-3}}{x_{n-q}y_{n-q}}$* , Applied Mathematics and Computation, **188**, 833-837, (2007).

• Not in Science Citation Index

1. **Gusein Sh. Guseinov**, *Eigenfunction expansions for a Sturm-Liouville problem on time scales*, Int. J. Difference Equ., **2**, 93 - 104, (2007).
2. **Gusein Sh. Guseinov**, *On solutions of discrete nonlinear elliptic boundary value problems*, In K. Tas, J.A. Tenreiro Machado, and D. Baleanu editors, **Mathematical Methods in Engineering**, Springer, Dordrecht, 189 - 196, (2007).
3. **Erdal Karapınar**, *Nuclearity and Multipliers between Banach Spaces*, Int. J. Contemp. Math. Sci, **32(2)**, 1601 - 1606, (2007).
4. **Sofiya Ostrovska**, *The first decade of the  $q$ -Bernstein polynomials: results and perspectives*, Journal of Mathematical Analysis and Approximation Theory, **2(1)**, 35-51, (2007).

## Accepted Articles

• In Science Citation Index

1. **Ümit Aksoy** (with A. O. Çelebi), *Schwarz problem for higher-order complex elliptic partial differential equations*, Integral Transforms and Special Functions, (2007).
2. **Ayhan Aydın** *Multi-symplectic integration of  $N$ -Coupled Nonlinear Schrödinger System With Periodic Solutions*, Chaos, Solitons and Fractals.
3. **Ayhan Aydın** (with B. Karasözen), *Multi-symplectic integration of coupled nonlinear Schrödinger system with solutions*, International Journal of Computer Mathematics.
4. **Anar A. Dosiev**, *Perturbations of nonassociative Banach algebras*, Rocky Mountain Journal of Mathematics, (2006).

5. **Rajeh Eid** (with S. I. Muslih, D. Baleanu, E.Rabei), *On fractional Schrödinger equation in  $\alpha$ -dimensional fractional space*, Journal of Nonlinear Analysis Series B: Real World Applications, (2007).
6. **Gusein Sh. Guseinov** (with A. Zafer), *Stability criterion for second order linear impulsive differential equations with periodic coefficients*, Math. Nachr., (2006).
7. **Sofiya Ostrovska**, *The convergence of  $q$ -Bernstein polynomials ( $0 < q < 1$ ) in the complex plane*, Mathematische Nachrichten, (2007).
8. **Sofiya Ostrovska**,  *$q$ -Bernstein polynomials of the Cauchy kernel*, Applied Mathematics and Computation, doi:10.1016/j.amc.2007.08.066, (2007).
9. **Abdullah Özbekler** (with A. Zafer), *Forced oscillation of super-half-linear impulsive differential equations*, Computers and Mathematics with Applications, (2007).
10. **Ahmet Yantır** (with S.G. Topal and E. Çetin), *Existence of positive solutions of Sturm-Liouville BVP on an unbounded time scale*, Journal of Difference Equations and Applications, (2007)

• Not in Science Citation Index

1. **Gusein Sh. Guseinov**, *An expansion theorem for a Sturm-Liouville operator on semi-unbounded time scales*, Advances in Dynamical Systems and Applications, (2007).
2. **Sergei Khrushchev** *Orthogonal Polynomials: The first minutes*, Proceedings of Symposia in Pure Mathematics, **76**, 464, (2007).
3. **Erol Serbest** (with K.I. Ikeda), *Genelleştirilmiş lokal Fesenko karşılıklılık yasası: Abelyen-olmayan lokal sınıf cisim kuramı*, 18. Ulusal Matematik Sempozyumu Bildiri Kitabı, (2006).
4. **Ahmet Yantır** (with S.G. Topal), *Positive solutions of nonlinear  $m$ -point BVP on time scales*, International Journal of Difference Equations, (2007).

## Submitted Articles

• In Science Citation Index

1. **Gusein Sh. Guseinov**, *Existence of solutions to second-order nonlinear discrete elliptic equations*, J. Difference Equ. Appl., (2007).
2. **Sofiya Ostrovska**, *The approximation of all continuous functions on  $[0, 1]$  by  $q$ -Bernstein polynomials in the case  $q \rightarrow 1+$* , Results in Mathematics, (2007).
3. **Ahmet Yaşar Özban**, *On the system of rational difference equations  $x_n = \frac{a}{y_{n-p}}$ ,  $y_n = \frac{by_{n-p}}{x_{n-q}y_{n-q}}$* , Applied Math. Comp., (2007).
4. **Ahmet Yaşar Özban**, (with H. zdemir, M. Sarduvan, N. Gler), *On idempotency and tripotency of linear combinations of tripotent matrices*, Applied Math. Comp., (2007).
5. **Ahmet Yaşar Özban**, *Generalizations of Jordan's Inequality and Some Applications*, Applied Mathematics and Computation, (2005).
6. **Abdullah Özbekler** (with A. Zafer), *Interval criteria for forced oscillation of super-half-linear differential equations under impulse effect*, Math. Comput. Modelling, (2007).
7. **Ahmet Yantır** (with M. Cichon, I. Kubiacyk, A. Sikorska-Novak), *Existence of solutions of the dynamic Cauchy problem in Banach spaces*, Journal of Differential Equations, (2008).
8. **Ahmet Yantır** (with I. Kubiacyk, A. Sikorska-Novak), *Existence of solutions of a second order BVP in Banach spaces*, Nonlinear Analysis: Theory Methods and Applications, (2008).
9. **Ahmet Yantır** (with S.G. Topal), *Positive solutions of nonlinear  $m$ -point BVP on time scales*, Nonlinear Dynamics and Systems Theory, (2007).
10. **Ugur Yüksel**, *Cauchy problems with Monogenic initial functions in Banach spaces with  $L_p$ -Norm*, Proceedings of the AMS, (2008).

• **Not in Science Citation Index**

1. **Ümit Aksoy** (with A. O. Çelebi), *Calderon-Zygmund type Singular Integral operators and the Schwarz problem for higher-order partial complex differential equations*, Proceedings of the ISAAC International Conf. on "Analysis, Application, and Computation", (2007).

2. **Ümit Aksoy** (with A. O. Çelebi), *Neumann problem for generalized Poisson and bi-Poisson equations*, Proceedings of 6 th ISAAC Conference, (2007).
3. **Ayhan Aydın** (with B. Karasözen), *Semi- explicit multi-symplectic integration of nonlinear Schrödinger equation*, Proceedings of 6 th ISAAC Conference, (2007).
4. **Abdullah Özbekler**, *Oscillation criteria for second order nonlinear impulsive differential equations*, Proc. of 6 ISAAC Congress, World Scientific, (2007).
5. **Ahmet Yantır** (with S. G. Topal), *Positive solutions of a nonlinear three point BVP on time scales*, Proceedings of ISAAC2007: World Scientific, (2008).

## Books and Monographs

### Books

1. **Toma Albu**, *Cogalois Theory*, A Series of Monographs and Textbooks, Marcel Dekker, Inc., New York, Vol. 252, 2003.
2. **Demir N. Küpeli** (with E. García-Rio and R. Vázquez-Lorenzo), *Osserman Manifolds in Semi-Riemannian Geometry*, Lecture Notes in Mathematics 1777, Springer-Verlag, Berlin, 2002.
3. **Rajeh Eid**, *Ordinary Differential Equations, Problem Book With Solutions*, Atilim University, Ankara, 2005.
4. **Sergei Khrushev**, *Orthogonal Polynomials and Continued Fractions*, Cambridge University Press, UK, (to appear).

### Monographs

1. **Gusein Sh. Guseinov** (with M. Bohner and A. C. Peterson), *Introduction to the time scales calculus*, In M. Bohner and A. Peterson editors, “Advances in Dynamic Equations on Time Scales”, Chapter 1 (pp.1-15), Birkhäuser, Boston, 2003.
2. **Gusein Sh. Guseinov** (with M. Bohner), *Riemann and Lebesgue integrations*, In M. Bohner and A. Peterson, editors, “Advances in Dynamic Equations on Time Scales”, Chapter 5 (pp. 117-163), Birkhäuser, Boston, 2003.