Proceedings

Contents

Ibrahim Abu-Alshaikh and Mehmet Emir Koksal, One-dimensional tran-
sient dynamic response of functionally graded spherical multilayered media
M. Z. Aissaoui , Asymptotic behavior of the solution, when $t \to \infty$, of a class of nonlinear equations, and associated spectral varieties
H. Akça, R. Alassar, Y. M. Shebadeh and V. Covachev, Neural networks modelling with impulsive differential equations
M. Akhmet, J. Alzabut and A. Zafer, On functionally equivalent impulsive delay differential equations
João F. Alves, Henrique Oliveira and J. Sousa Ramos, Topological entropy of the tangent map
J. F. Alves and J. Sousa Ramos, Artin-Mazur zeta function on trees with infinite edges 65
Shaban Aly and M. Farkas, Interaction of species in patchy environment with cross diffusion 74
F. Ammar-Khodja, S. Kerbal and A. Soufyane, The uniform stabilization of the nonuniform Timoshenko beam 87
A. Ashyralyev, G. Judakova and P. E. Sobolevskii, On difference schemes for hyperbolic-elliptic equations
A. Ashyralyev and N. Yenial-Altay, Positivity of difference operators generated by the nonlocal boundary conditions
A. Ashyralyev and H. A. Yurtsever, On difference schemes for hyperbolic parabolic equations
N. Azbelev and P. Simonov, Contemporary theory of functional differential equations and some classical problems
Alina Barbulescu and Vasile Marza, Some models for the voltage induced in a liquid by cavitation 158
Mohammed Bouchekif and Yasmina Nasri, On nonhomogeneous elliptic system with changing sign data 166

viii Contents

Abdelkader Boucherif and Nawal Al-Malki , Nonlinear second order periodic boundary value problems 178
S. M. Bouguima and S. Fekih, Multiplicity results for an elliptic system 189
N. Boussetila and F. Rebbani, The modified quasi-reversibility method for an abstract ill-posed ultraparabolic problem 193
Jan Čermák, Asymptotic properties of differential systems with unbounded de- lays 195
D. Cheban and C. Mammana, Relation between different types of stabilities of linear nonautonomous dynamical systems 205
Sui Sun Cheng, Smooth solutions of iterative FDEs 228
V. B. Cherepennikov, Variation inverse initial value problem for linear systems of differential-difference equations of neutral type 253
Y. J. Cho, G. T. Guo and H. Y. Zhou, Approximating fixed points of asymptotically quasi-nonexpansive mappings by the iterative sequences with errors 262
Nicolae Costea and Cristian Stefan Dumitriu, Considerations on the study of the errors in the mathematical model of the lag propagation 273
Valéry Covachev, Haydar Akça and Yaqoub Mustafa Shebadeh, Periodic solutions of the discrete counterpart of an impulsive system with a small delay 282
İdris Dağ, Bülent Saka and Ahmet Boz, Quintic B-spline Galerkin methods for numerical solutions of the Burgers' equation 295
Ali Djellit and Nawel Benouhiba, Asymptotic estimates for the eigenvalues of some nonlinear elliptic problems 310
Ilhem Djellit and Ibtissem Boukemara, Bifurcations and attractors in Bogdanov map 323
A. A. Dosiyev and S. Cival, A difference-analytical method for solving Laplace's boundary value problem with singularities 339
Zuzana Došlá and Aleš Kobza, Oscillatory solutions of third order nonlinear difference equations 361

Proceedings

Ondřej Došlý, The Bohl transformation and its applications	371
M. Ebrahimi, Generators of probability dynamical systems	386
H. Hein and Ü. Lepik, On stochastic response of nonlinear oscillators	395
Ivan Ganchev Ivanov , Properties of solutions of matrix equation $X + A^*X^{-2^k}A = Q$	408
M. R. Jabbarzadeh, Substitution operators between measurable function	n spaces 419
M. Jahanshahi, N. Aliev and H. R. Khatami, An analytic-numerical for solving difference equations with variable coefficients by discrete plicative integration	
M. Karami, Solving integral equations by Petrov-Galerkin method and Hermite-type 3 – 1 elements	d using 436
B. Kendirli, Decomposition of prime ideals in the extensions	443
F. Khadem and F. A. Ghasemi , Using Lagrange-type $k-0$ elements for Fredholm integral equations of the second kind	solving 450
H. R. Khatami, M. Jahanshahi and N. Aliev, An analytical met some nonlinear difference equations by discrete multiplicative differen	
A. Khelassi, J. A. Wilson and R. Bendib, Assessment of interaction in control systems	process 463
Brahim Khodja Nonexistence of solutions for semilinear equations and sin cylindrical domains	systems 472
Maria K. Koleva and Valéry C. Covachev, The Lyapunov exponent a long-term stability of the natural systems	and the 485
Ülo Lepik and Enn Tamme , Application of the Haar wavelets for solu linear integral equations	ution of 494
Carmen Maftei and Alina Barbulescu, Program for the managemen pluviometrical and limnimetrical data	t of the
K. Maleknejad, Solving integral equations of the second kind by using basis in the PG method	wavelet 515

x Contents

S. Mazouzi and N. Ferfar, Improved results regarding some multidimensional reaction-diffusion systems 521
Hocine Meglouli, Reliable measurement and influence of measurement errors on the balance algorithm of physical parameters (application on a rectification vacuum column) 532
M. Nadir, Endpoint values of wavelets on an interval 538
M. Nadir, On the approximation of singular integrals of Cauchy type 547
Saadet Özer and Ali Ercengiz, Effect of the thickness of tube on wave propagation in elastic tubes filled with viscous fluid 553
Sandra Pinelas, Nonoscillations in retarded equations 563
Necat Polat, Doğan Kaya and H. İlhan Tutalar, Blow up of solutions for a class of nonlinear wave equations 572
E. Pourreza , Boundedness of weighted composition operators between two different L^p spaces 577
I. Rahimov, On the number of large families in a branching population 582
J. Leonel Rocha and J. Sousa Ramos, Computing topological and metrical invariants 598
Alexandra Rodkina and Gregory Berkolaiko, On asymptotic behavior of solutions to linear discrete stochastic equation 614
Gergely Röst , Some applications of bifurcation formulae to the period map of delay differential equations 624
M. Shahrezaee, Solving an integro-differential equation by Legendre polynomial and block-pulse functions 642
O. Cherikh Sisaber and R. Bebbouchi, On a singularly perturbed Liénard system with three equilibrium points 648
Muhammed I. Syam, The modified adaptive quadrature method for line integrals 652
Tadié , Comparison results for quasilinear elliptic equations via Picone-type identity 660

Proceedings

Vadim Z. Tsalyuk, Stability	of linear systems	s with discrete feedback	k and impulse
${\rm input}$			671

- **Simten Uyhan**, On Poisson semigroup generated by the generalized B-translation 679
- H. Vaezi and S. F. Rzaev, On modulus of smoothness of functions given on compact groups
- Victor Varin, The center-focus problem and variational equations 695
- Nergiz Yaz and H. Hilmi Hacısalihoğlu, On fractal colouring algorithms
 706
- Ahmet Yazıcı, Abdurrahman Karamancıoğlu and Rafail N. Gasimov, Stabilizing Acrobot by using nonlinear programming based on sliding mode controller 712
- Mustapha Yebdri, Boundary value problem for functional differential equations
 725
- Asif Yokus and Doğan Kaya, A numerical comparison for coupled Boussinesq equations by using the ADM 730