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Nota di contenuto	Approximation by Neural Networks Iterates. George A. Anastassiou -- Univariate Hardy Type Fractional Inequalities. George A. Anastassiou -- Statistical Convergence on Time Scales and its Characterizations. Ceylan Turan and Oktay Duman -- On the g-Jacobi Matrix Functions Bayram C, ekim and Esra Erkus,-Duman -- Linear Combinations of Genuine Sz'asz-Mirakjan-Durrmeyer Operators. Margareta Heilmann and Gancho Tachev -- Extensions of Schur's Inequality for the Leading Coefficient of Bounded Polynomials with Two Prescribed Zeros. Heinz-Joachim Rack -- An Example of Optimal Nodes for Interpolation Revisited. Heinz-Joachim Rack -- Theory of Differential Approximations of Radiative Transfer Equation. Weimin Han, Joseph A. Eichholz and Qiwei Sheng -- Inverse Spectral Problems for Complex Jacobi Matrices. Gusein Sh. Guseinov -- To Approximate Solution of Ordinary Differential Equations, I. Tamaz S. Vashakmadze -- A Hybrid Method for Inverse Scattering Problem for a Dielectric. Ahmet Altundag -- Solving Second Order Discrete Sturm-Liouville BVP Using Matrix

Pencils. Michael K. Wilson and Aihua Li -- Approximation Formulas for the Ergodic Moments of Gaussian Random Walk with a Reflecting Barrier. Tahir Khaniyev, Basak Gever and Zulfiyya Mammadova -- A Generalization of Some Orthogonal Polynomials. Boussayoud Ali, Kerada Mohamed and Abdelhamid Abderrezzak -- Numerical Study of the High-Contrast Stokes Equation and its Robust Preconditioning. Burak Aksoylu and Zuhail Unlu -- Extension of Karmarkar's Algorithm for Solving an Optimization Problem. El Amir Djeflal, Lakhdar Djeflal and Djamel Benterki -- State Dependent Sweeping Process with Perturbation. Tahar Haddad and Touma Haddad -- Boundary Value Problems for Impulsive Fractional Differential Equations with Non-Local Conditions. Hilmi Ergoren and M. Gıyas Sakar -- The Construction of Particular Solutions of the Nonlinear Equation of Schrodinger Type. K.R. Yesmakhanova and Zh.R. Myrzakulova -- A Method of Solution for Integro-Differential Parabolic Equation with Purely Integral Conditions. Ahcene Merad and Abdelfatah Bouziani -- A Better Error Estimation On Sz'asz Baskakov Durrmeyer Operators. Neha Bhardwaj and Naokant Deo -- About New Class of Volterra Type Integral Equations with Boundary Singularity in Kernels. Nusrat Rajabov -- Fractional Integration of the Product of Two Multivariables H-Function and a General Class of Polynomials. Praveen Agarwal -- Non-Asymptotic Norm Estimates for the q-Bernstein Operators. Sofiya Ostrovska and Ahmet Yas'ar O' zban -- Approximation Techniques in Impulsive Control Problems for the Tubes of Solutions of Uncertain Differential Systems. Tatiana Filippova -- A New Viewpoint to Fourier Analysis in Fractal Space. Mengke Liao, Xiaojun Yang and Qin Yan -- Non-Solvability of Balakrishnan-Taylor Equation With Memory Term in RN , Abderrahmane Zarai and Nasser-eddine Tatar -- Study of Third-Order Three-Point Boundary Value Problem With Dependence on the First Order Derivative. A. Guezane-Lakoud and L. Zenkoufi -- Reverse and Forward Fractional Integral Inequalities. George A. Anastassiou and Razvan A. Mezei.

Sommario/riassunto

Advances in Applied Mathematics and Approximation Theory: Contributions from AMAT 2012 is a collection of the best articles presented at "Applied Mathematics and Approximation Theory 2012," an international conference held in Ankara, Turkey, May 17-20, 2012. This volume brings together key work from authors in the field covering topics such as ODEs, PDEs, difference equations, applied analysis, computational analysis, signal theory, positive operators, statistical approximation, fuzzy approximation, fractional analysis, semigroups, inequalities, special functions and summability. The collection will be a useful resource for researchers in applied mathematics, engineering and statistics.