GEORGIAN MATHEMATICAL JOURNAL

EDITOR-IN-CHIEF
Ivan Kiguradze, Tbilisi

EXECUTIVE EDITOR
Tengiz Buchukuri, Tbilisi

EDITORIAL SECRETARY
Maia Kvinikadze, Tbilisi

EDITORIAL BOARD
Hans-Joachim Baues, Bonn
Alexander Kharazishvili, Tbilisi
Nodar Berikashvili, Tbilisi
Sergo Kharibegashvili, Tbilisi
Oleg V. Besov, Moscow
Estate Khmaladze, Wellington
Bogdan Bojarski, Warsaw
Tariel Kiguradze, Melbourne
Pavel Drábek, Plzeň
Vakhtang Kokilashvili, Tbilisi
Roland Duduchava, Tbilisi
Samuel Krushkal, Ramat Gan
Hans-Jürgen Engelbert, Jena
Jaroslav Kurzweil, Prague
Nodar Berikashvili, Tbilisi
Stanislaw Kwapien, Warsaw
Rezaz Gamkrelidze, Moscow
Hans Rudolf Lerche, Freiburg
Joseph Gubeladze, San Francisco
Michael Mania, Tbilisi
Hvedri Inassaridze, Tbilisi
Jean Mawhin, Louvain-la-Neuve
Mamuka Jibladze, Tbilisi
Paolo Emilio Ricci, Rome
Tornike Kadeishvili, Tbilisi
Vaja Tarieladze, Tbilisi
Otto H. Kegel, Freiburg
Hans Triebel, Jena

DE GRUYTER
Contents

Faiçal Abdmouleh, Hassen Khilif, Ines Walha
Spectral description of Fredholm operators via polynomially Riesz operators perturbation —— 317

Petre Babilua
On the estimation of the Bernoulli regression function using Bernstein polynomials for group observations —— 335

Mariam Beriashvili, Ralf Schindler
Mazurkiewicz sets with no well-ordering of the reals —— 343

Lars Diening, Oleksiy Karlovych, Eugene Shargorodsky
On interpolation of reflexive variable Lebesgue spaces on which the Hardy–Littlewood maximal operator is bounded —— 347

Lasha Ephremidze, Ilya Spitkovsky
On the generalization of the Janashia–Lagvilava method for arbitrary fields —— 353

Carlos Fresneda-Portillo
On a boundary-domain integral equation system for the Robin problem for the diffusion equation in non-homogeneous media —— 363

Pankaj Jain
Classical inequalities for pseudo-integral —— 373

Sergo Kharibegashvili, Bidzina Midodashvili
The boundary value problem for one class of higher-order nonlinear partial differential equations —— 387

Najib Mahdou, Moutu Abdou Salam Moutui, Youssef Zahir
On S-weakly prime ideals of commutative rings —— 397

Elimhan N. Mahmudov, Sevilay Demir Sağlam
Necessary and sufficient conditions of optimality for second order discrete and differential inequalities —— 407

Nadica Mihajlović, Dragan S. Djordjević
Perturbation results and forward order law for the Moore–Penrose inverse in rings with involution —— 425

Michał Morayne, Robert Rałowski
On \(T_1\)- and \(T_2\)-productable compact spaces —— 441

José Luis Serrano Ricardo, Ricardo Abreu Blaya, Juan Bory Reyes, Jorge Sánchez Ortíz
On a Riemann–Hilbert boundary value problem for \((\varphi, \psi)\)-harmonic functions in \(\mathbb{R}^m\) —— 445

Stoyan Ivanov Dimitrov
On an equation by primes with one Linnik prime —— 455

Vakhtang Tsagareishvili
Differentiable functions and their Fourier coefficients —— 471