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contractions with application to nonlinear integral equation -- R. Kumar, A. Kumar Nain, M. Kumar, On Unique Positive Solution of Hadamard Fractional Differential Equation Involving p Laplacian -- M. Pandey, T. Som, S. Verma, Dimensional Analysis of Mixed RiemannLiouville Fractional Integral of Vector Valued Functions -- T.M. C. Priyanka, A. Gowrisankar, Fractional operator associated with the fractal integral of A-fractal function -- Differential and Integral Equations: S. Chentout, A. Benmezai and W. Esserhan, Eigenvalue criteria for existence and nonexistence of positive solutions for order fractional differential equations, ($2 < 3$), with integral condition ,on the halfline -- B. Hussain and A. Afroz, A Collocation Method for Solving Proportional Delay Riccati Differential Equations of Fractional Order -- Rahul and N. Kumar Mahato, On the Solution of Generalized Proportional Hadamard Fractional Integral Equations -- S. Ghosh and M. Banerjee, A multi-strain model for COVID-19 -- S. Samaddar, M. Dhar and P. Bhattacharya, Effect of Nonlinear Prey Refuge on Predator-Prey Dynamics -- Dr R. Tiwari, Effects of magnetic field and thermal conductivity variance on thermal excitation developed by laser pulses and thermal shock -- C. Bhuma, Parkinson Disease Detection from spirals and wave drawings using Sequential Model Selection -- Fractal Theory: P. Massopust, Clifford-Valued Fractal Interpolation -- M. Verma, A. Priyadarshi, S. Verma, Fractal dimension for a class of complexvalued fractal interpolation functions -- M. K Roychowdhury, Optimal quantizers for nonuniform distributions on Sierpiński carpets -- V. Agrawal and T. Som, A note on complex-valued fractal functions on the Sierpinski Gasket -- Fuzzy Set Theory and Soft Computing: Salsabeela V and Sunil Jacob John, A Similarity Measure of Picture Fuzzy Soft Sets and its Application -- A. Kumari Prasad, Soft Almost s -Regularity and Soft Almost s Normality -- Fathima Perveen P A and Sunil Jacob John, Algebraic Properties of Spherical Fuzzy Sets -- T M Athira and Sunil Jacob John, Divergence Measures of Pythagorean Fuzzy Soft Sets -- Anitha K, Fuzzy-Rough Optimization Technique for Breast Cancer Classification -- Optimization: J. Dutta, An Invitation to Optimality Conditions through Non-smooth Analysis -- J. Jauny, D. Ghosh and A. Upadhayay, Multi-objective Environmentally Friendly and Economically Feasible Electric Power Distribution Problem with Primal-Dual Interior-Point Method -- A. Singh and S. Prasad Yadav, Performance evaluation of DMUs using hybrid fuzzy multi-objective data envelopment analysis -- V. Laha and L. Pandey, On mathematical programs with equilibrium constraints under data uncertainty -- S. Ganguly, P. Das, Pricing policy with the effect of fairness concern, imprecise greenness and prices in imprecise market for a dual channel -- A. Sonkariya and S. P. Yadav, The best state based development of fuzzy DEA model -- D. Datta, Optimization Methods using Music Inspired Algorithm and its Comparison with Nature Inspired Algorithm -- A. Choudhary and S. Prasad Yadav, A new approach to solve intuitionistic fuzzy transportation problem -- M. Yadav and S. P. Yadav, Development of Intuitionistic fuzzy data envelopment analysis model based on interval data envelopment analysis model.

Sommario/riassunto

This book contains select contributions presented at the International Conference on Nonlinear Applied Analysis and Optimization (ICNAAO-2021), held at the Department of Mathematics, Indian Institute of Technology (BHU) Varanasi, India, from 21–23 December 2021. The book discusses topics in the areas of nonlinear analysis, fixed point theory, dynamical systems, optimization, fractals, applications to differential/integral equations, signal and image processing, and soft computing, and exposes the young talents with the newer dimensions in these areas with their practical approaches and to tackle the real-life

problems in engineering, medical and social sciences. Scientists from the U.S.A., Austria, France, Mexico, Romania, and India have contributed their research. All the submissions are peer reviewed by experts in their fields.
