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Soggetti	Neural networks (Computer science) Mathematical models Automatic control Coding theory Information theory Probabilities Graph theory Differential equations Mathematical Models of Cognitive Processes and Neural Networks Mathematical Modeling and Industrial Mathematics Control and Systems Theory Coding and Information Theory Graph Theory in Probability Differential Equations
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Nota di contenuto	Ananya Dwivedi Vinod Baniya and Ram Keval: Application of Optimal Controls on Dengue Dynamics: A Mathematical Study -- Sandeep Sharma, Amit Sharma, and Fateh Singh: Did the COVID-19 Lockdown in India Succeed? A Mathematical Study -- Bhavyata Patel, Rhydham Karnik, and Dhanesh Patel: Tumour Growth and its Treatment Response Delineate with Mathematical Models -- Kuru Ratnavelu, Jia Hou Chin: A Computational Approach to the Three-body Coulomb Problem: Positron Scattering from Atomic Systems -- M. Sankara Narayanan and M.

Marudai: Common Best Proximity Points for Some Contractive Type Mappings -- P. Kowsalya, R. Kaviya and P. Muthukumar: Dynamical Analysis of Conformable Fractional-Order Rosenzweig–MacArthur Prey–Predator System -- P. Balasubramaniam: Existence of Solution for a Class of ABC Fractional Evolution Inclusions with Non-Instantaneous Impulses -- Yeh Ching Low and Seng Huat ONG: Computation of Probabilities of Mixed Poisson Weibull Distribution -- Md Mustafa Kamal and Imtiaz Ashraf: Cost of Energy for Distributed Energy Resources based Power Generation in a Rural Microgrid: Impact of Controlling Parameters -- S.T. Padmapriya, T. Kalaiselvi and K. Somasundaram: Adaptive Learning Rate Based Convolutional Neural Network Models For Brain Tumor Images Classification -- S. Praveenkumar, K. Somasundaram, T. Kalaiselvi and S. Magesh: Extended Discrete Cosine Transform -- Mohd Fikree Hassan and Raveendran Paramesran: Image Reconstruction from Geometric Moments via Cascaded Digital Filters -- Dhamodharan S. and Shanmugavadivu Pichai: Background Preserved and Feature-Oriented Contrast Improvement Using Weighted Cumulative Distribution Function for Digital Mammograms -- N. Padmaja1 and P. Balasubramaniam: Finite-time Passification of Fractional-order Recurrent Neural Networks with Proportional Delay and Impulses: An LMI Approach -- J. Priyadharsini1 and P. Balasubramaniam: Stability Result for Hilfer Fractional Integrodifferential Stochastic Equations with Fractional Noises and Non-instantaneous Impulses -- B. Visakamoothi and P. Muthukumar: Fuzzy Sampled-data Control for Single-master Multi-slave Teleoperation Systems with Stochastic Actuator Faults -- B. Adhira and G. Nagamani: Extended Dissipativity Performance for the Delayed Discrete-time Neural Networks with Observer-Based Control -- M. Shafiya and G. Nagamani: Synchronization of Delayed Fractional-order Memristive BAM Neural Networks -- V. Aparna and N. Mohanapriya: r-Dynamic Chromatic Number of Extended Neighborhood Corona of Complete Graph with Some Graphs -- G. Mahadevan, M. Vimala Suganthi and C. Sivagnanam: Corona Domination Number of Graphs -- Immanuel John Raja Jebadurai, Getzi Jeba Leelipushpam Paulraj, Jebaveerasingh Jebadurai and Nancy Emymal Samuel: An AHP Based Unmanned Aerial Vehicle Selection for Data Collection in Wireless Sensor Networks -- R. Pavithra and R. Rajkumar: On the Characteristic Polynomial of the Subdivision-vertex Join of Graphs -- G. Gold Belsi and S. Kavitha: Genus and Book Thickness of the Inclusion Ideal Graph of a Ring -- S. Angammal and G. Hannah Grace : A Comparison Between Fuzzy and Intuitionistic Fuzzy Optimization Technique for Profit and Production of Crops in Ariyalur District -- M. Priya and R. Uthayakumar: A Study on HB Theory in Product Intuitionistic Fuzzy Fractal Space -- S. Ganesan and R. Uthayakumar: An EOQ Inventory Model with Shortage Backorders and Incorporating a Learning Function in Fuzzy Parameters.

Sommario/riassunto

This book collects papers presented at the International Conference on Mathematical Modelling and Computational Intelligence Techniques (ICMMCIT) 2021, held at the Department of Mathematics, The Gandhigram Rural Institute (Deemed to be University), Gandhigram, Tamil Nadu, India, from 10–12 February 2021. Significant contributions from renowned researchers from fields of applied analysis, mathematical modelling and computing techniques have been received for this conference. Chapters emphasize on the research of computational nature focusing on new algorithms, their analysis and numerical results, as well as applications in physical, biological, social, and behavioural sciences. The accepted papers are organized in topical sections as mathematical modelling, image processing, control theory,

graphs and networks, and inventory control. .
