

1. Record Nr.	UNINA9910917195703321
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Titolo	Proceedings of the 2nd International Conference on Nonlinear Dynamics and Applications (ICNDA 2024), Volume 3 : Dynamical Models, Communications and Networks / / edited by Asit Saha, Santo Banerjee
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-69146-6
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (0 pages)
Collana	Springer Proceedings in Physics, , 1867-4941 ; ; 314
Altri autori (Persone)	BanerjeeSanto
Disciplina	530.1
Soggetti	System theory Graph theory Quantum communication Stochastic processes Telecommunication Complex Systems Graph Theory Quantum Communications and Cryptography Stochastic Networks Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Graphs, Networks & Communications -- New G-optimality criteria for multi-dimensional control problem with applications in artificial neural system -- Multiscale Permutation Entropy Analysis of EEG-Based Seizure Classification: A Machine Learning Approach -- Prediction of Refractive Index of Rice Blast Fungicides using Eccentric Degree Index – A Graph Theoretic Approach -- On maximal $\mu^*$ -open set, minimal $\mu^*$ -closed set, mean $\mu^*$ -open set and its applications in discrete dynamical systems -- Performance Analysis of Discrete Wavelet Transforms for Acoustic Scene Classification with DCASE Dataset -- Investigation of channel doping effects on high-frequency noise for Trench Double gate JLFETs -- On Graphs Attaining

Upper Bound of k-Rainbow Total Domination Number and its Application in Graph Dynamical System -- 2-path signed graph of signed Smith graphs and its applications in nonlinear dynamics -- Frequency Analysis of Orthotropic Square Plates with Circular Thickness Variations in Two Dimensions -- BlossomNet: A Deep Learning Framework for Accurate Flower Identification -- Performance Analysis of Accurate and Approximate Compressors at Nanometer Regime -- A Simple but Accurate Method of Estimation of Far Field Pattern of Single-mode Triangular Index Fiber -- Analyzing Electrocardiogram Signal Complexity with Weighted Entropy -- Physics Informed Neural Network for solution of Duffing oscillators -- Wavelet Scattering Operators for Multiscale Processes: the Case Study of Marine Mammal Vocalizations -- Outer Heliosphere and Interstellar Medium: investigation on the signal fluctuations collected by Voyager probes -- An adaptable single-server encouraged arrival, balking, and symmetric stochastic Markovian queuing system with threshold policy -- SNR Estimation for Hypercubic Signals in Rayleigh Channels -- Vehicle Detection With Number Plate Recognition -- Patient Health Monitoring System for Chronic Cardiac Attack using Machine Learning -- Time Domain analysis of vibration isolator using Newmark method along with Newton Raphson method -- Deep Learning for Path Tracking of Autonomous Mobile Robots -- Other Fields of Nonlinear Dynamics -- Generative models as out-of-equilibrium particle systems: training of Energy-Based Models using Non-Equilibrium Thermodynamics -- Chemical Significance of Some Neighborhood Degree-based Molecular Descriptors -- Dynamics of pendulum forced by a magnetic excitation with position-dependent phase -- Analysis of surface texture and material removal rate during AISI 202 thermal-assisted turning using a carbide cutting tool -- High cycle fatigue behavior of TIG welded joint at optimum parametric condition -- Study of Cylindrical Magnetohydronmaic Shock Waves in Non-Ideal Gas: Similarity Solution Perspective -- QSPR Analysis of Anti-Asthma Drugs using some recent Neighbourhood Degree-based Topological Descriptors -- Does anything beat a GARCH(1,1)? Evidence from Crypto Markets -- Computational Analysis of Sn-Doped hBN for Detection of Lung Cancer-Related VOCs -- Exploring Business Management Practices of Milk Tea Houses in Selected Urban Towns of Nueva Vizcaya -- Drift and Annihilation of a Counter-rotating Spiral Pair in Belousov-Zhabotinsky Reaction Under a DC Electric Field -- Analyzing the Impact of COVID-19 pandemic and Ukraine-Russia war in WTI-Brent Spread: A MFXDFA Approach -- Experimental and Parametric study of friction stir welding in similar and dissimilar metals -- A General Form of FO PI-PD Controllers for Some Stable Integer and Non-integer Order Plants with Transport Delay -- Abortion Detection and Monitoring for Empowering Equality through the Integration of Biometric and Artificial Intelligence -- Effect of vacancy defect on the free vibration of some noncarbon nanomaterials: A molecular static study -- UV-visible, FTIR and Electrochemical Properties of rGO and ZnO/rGO Nanocomposite Produced via Green Synthesis Process -- An Efficient Hybrid Sequence of Retargeting Operators to Minimize Structural Deformities in Image -- Image acquisition and electric field application in the Belousov-Zhabotinsky reaction using LabVIEW -- Theoretical Investigation to Analyze the Effect of Core Size of InAs/GaAs Core Shell Nanostructure -- Estimating Soil Temperature at Various Depths in Bangladesh: A Comparative Analysis of Advanced Machine Learning Tree-Based Models -- Stability Analysis of Vaccinated and Non-Vaccinated Population of Covid'19 – A Study by Mathematical Modeling -- Investigation of dielectric studies of  $(Nd_{1-x}Gd_x)2FeCrO_6$  ( $x = 0.0$  –

0.3) Double Perovskite -- Mapping the Spatial Dynamics of COVID-19 Clusters in Nueva Vizcaya, Philippines -- Dissipative Force on an External Quark in AdS Gauss-Bonnet Gravity with String Cloud -- A Structural Model of Mathematics Performance as Influenced by Students' Engagement with Technology to Students' Motivation -- A gesture based turing test for mitigation of DDoS attacks in cloud -- Efficacy of a Markovian queueing system with differentiated dual vacation, encouraged arrival, balking and feedback -- Parameters optimization of a hydraulically interconnected suspension in a stretcher using Genetic Algorithm -- Stochastic Resonance with Entropy -- Optimizing Performance Measures in a Finite Markovian Heterogeneous Queueing Model with Encouraged Arrival -- Synchronized Dynamics of Earthquake Fault Motion -- Multidimensional Extensions of Basic (or  $q\$$ -) Analogs of Certain Erd\elyi Type Integrals.

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#### Sommario/riassunto

This book covers the latest advancements and applications of nonlinear dynamics in various fields of science and engineering, presenting a curated selection of peer-reviewed contributions at the 2nd International Conference on Nonlinear Dynamics and Applications (ICNDA 2024) at Sikkim Manipal Institute of Technology (SMIT). Organized by the Department of Mathematics, SMIT, SMU, this international conference provides a platform for scientists, researchers, and inventors to share their findings and exchange ideas in the ever-evolving field of nonlinear dynamics. This book comprises three volumes. Volume 3 focuses on graphs, networks, and communications. It covers topics such as optimization in control and neural systems; machine learning for signal analysis and classification; graph theory applications in science and engineering; analysis of wavelets and transforms in signal processing; and semiconductor devices and nanomaterials.

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