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Record Nr.	UNINA9910874686603321
Autore	Kumar Rajesh
Titolo	Soft Computing: Theories and Applications : Proceedings of SoCTA 2023, Volume 1 / / edited by Rajesh Kumar, Ajit Kumar Verma, Om Prakash Verma, Tanu Wadehra
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819720316
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (427 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 970
Altri autori (Persone)	VermaA. K (Ajit Kumar) VarmaOma Prakasa WadehraTanu
Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Automatic control Robotics Automation Signal processing Computational Intelligence Artificial Intelligence Control, Robotics, Automation Signal, Speech and Image Processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A Mathematical Approach to Prevent and Control COVID-19 Outbreaks: The Improved M-E Model -- Implementation of Agricultural produce segregation using image processing Algorithm -- Detection of Duplicate Question Pairs by Applying Proposed BoW, TF-IDF & USE Approach -- The Hand Glove Enabling Voice and Text Communication -- Advancing Rheumatoid Arthritis Care: Exploring Technological -- Breakthroughs and Future Directions -- Twitter Trolling Detection Using Machine Learning -- HMHDTML: Human Mental Health Detection using Text and Machine Learning Model -- Analysing the growth profile of Brain tumor with Caputo fractional operator via Sumudu transform

-- Multi Labelled Topic Classification of Research Articles Using Machine Learning -- Security in Mobile Ad hoc Networks: Impact of Attacks and Counter-Measure Approaches -- Optimization of vibrational frequencies for orthotropic parallelogram plates with circular variations in tapering at simply supported boundary -- Drowsiness Detection Using Adaboost Method and Haar Cascade Classifier to Improve Safety of Drivers -- Early detection of colorectal cancer from polyps images using deep learning -- Motion control of underactuated cart-double-pendulum system via fractional order sliding mode controller -- A Comparative Study of Pedestrian Detection Techniques over the Last Decade -- Approximation properties of Modified-Bernstein operators having Sz´asz weight functions -- Fourier-Laguerre expansion of signals by composite summable technique -- A Multiple Linear Regression Model to Estimate Global, Direct and Diffuse Irradiance in Gurugram, India using Python -- Supervised Machine Learning Approaches for Customer Reviews Sentiment Analysis -- Stock Price Prediction on Indian Share Market Using Machine Learning -- Transparent Price Forecasting For Basic Food commodities in a Developing Economy -- Parallel Deep Convolution Neural Network (P-DCNN) Prediction of Paddy Crop Disease -- Convolutional-LSTM Network for Emotion Recognition using EEG data in Valence-Arousal dimension -- Analysis of Multiply Accumulate (MAC) Unit Using Convolution Neural Networks (CNN) -- Implementing reinforcement learning for tackling smart grid pricing problem -- Teaching Learning Based Optimization Algorithm Approach for Water Management of Canal Command Area of Upper Ganga Canal -- Deep Learning Based Algorithmic Trading Based on News and Events Strategies -- Pothole Detection and Prediction using Deep Learning with Convnet and YOLOv8 -- Window Function Dependency on Male and Female Speech Signals for Pitch Extraction at Low SNRs -- Improvised Optical Flow Techniques to Track Vehicle Movements in a Drone Video – Hybrid Approach combining Lucas-Kanade and Horn-Schunck Methods -- Generation of Negative and Positive Association Rules using Modified Algorithm -- A Cutting Edge Algorithm for Interval-Valued Intuitionistic Fuzzy Decision Making Based on Mean, Variance of Alternative Score Matrices and A New Score Function -- Apple Scab Detection using Transfer Learning and Deep Convolutional Network -- Cloud Eye: A Tool to Secure Text, Images and Audios using Steganography -- A Green Inventory Model for New and Revamped Decaying Products with Partially Backlogged and Stock Dependent Demand -- A Machine Learning based approach to Assess and Predict Drought Events: A case of Rajasthan, India.

| Sommario/riassunto | This book focuses on soft computing and how it can be applied to solve real-world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing, and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2023), held at Indian Institute of Information Technology (IIIT) Una, Himachal Pradesh, India, during 21–23 December 2023. The book offers valuable insights into soft computing for teachers and researchers alike; the book inspires further research in this dynamic field. |