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Autore	Bhattacharyya Siddhartha
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Altri autori (Persone)	DasGautam DeSourav MrsicLeo
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Nota di contenuto	Rules Extraction Methods from Neural Networks -- Quality Analysis of the Ganges River Water Utilizing Machine Learning Technologies -- Eye-Tracking Movements – A Comparative Study -- Cybersecurity Imminent Threats with Solutions in Higher Education -- A two-level fuzzy model for filtering signals of the automatic dependent surveillance-broadcast -- Towards More Robust Multiclass Aerial Solar Panel Detection and Classification -- PlantML: Some Aspects of Investigation on Deployment of Machine Learning Algorithm for Detection and Classification of Plants -- Big Data Analytics Based Recommendation System Using Ensemble Model -- Uncertainty Management in Brain Data for Olfactory Perceptual-Ability Assessment of Human Subjects by General Type-2 Fuzzy Reasoning -- Checkpoint

based Round-robin Scheduling Technique towards Fault Tolerant Resource Management in Cloud Computing -- Cost Optimised Community-Based Influence Maximization -- A Novel Model for Automated Identification of Terrestrial Species -- Fish Detection from Underwater images using YOLO and its Challenges -- Design and Realization of an IoT Based System for Real-Time Monitoring Of Embryo Culture Conditions in IVF CO2 Incubators -- FPGA Implementations and Performance Analysis of Different routing Algorithms for the 2D-Mesh Network-on-Chip -- A Comparative Analysis of Non-Gradient Methods of Class Activation Mapping -- Deep Learning based Weight Initialization on Multi-layer Perceptron for Image Recognition -- Assessment of Air Quality as a Positive Impact of COVID-19 Lockdown with reference to an Industrial City and a Populated City of India -- Applications of Big Data in Various Fields: A Survey -- Performance Analysis of Healthcare Information in Big Data NoSql platform -- IoT Based Smart Internet Protocol Camera for Examination Monitoring -- Efficient Low Complexity Message Passing Algorithm for Massive MIMO Detection -- An Effective Community-Based Greedy Approach over Selected Communities for Influence Maximization.

Sommario/riassunto

This book gathers extended versions of papers presented at DoSIER 2022 (Fourth Doctoral Symposium on Intelligence Enabled Research, held at Cooch Behar Government Engineering College, West Bengal, India, during 22–23 December 2022). The papers address the rapidly expanding research area of computational intelligence, which, no longer limited to specific computational fields, has since made inroads in signal processing, smart manufacturing, predictive control, robot navigation, smart cities, and sensor design, to name but a few. Presenting chapters written by experts active in these areas, the book offers a valuable reference guide for researchers and industrial practitioners alike and inspires future studies.
