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Nota di contenuto	Theory and methods -- NAARPreC: A Novel Approach for Adaptive Resource Prediction in Cloud -- One True Pairing: Evaluating Effective Language Pairings for Fake News Detection Employing Zero-Shot Cross Lingual Transfer -- FedCLUS: Federated Clustering from Distributed Homogeneous Data -- On Language Clustering: Non-parametric Statistical Approach -- Method Agnostic Model Class Reliance (MAMCR) Explanation of Multiple Machine Learning Models -- Association Rules

based Feature Extraction for Deep Learning Classification -- Global Thresholding Technique for Basal Ganglia Segmentation from Positron Emission Tomography Images -- Oversampling Methods to Handle the Class Imbalance Problem: A Review -- Analog Implementation of Neural Network -- Designing Fog Device Network for Digitization of University Campus -- Word Sense Disambiguation from English to Indic language: Approaches and Opportunities -- Explainable AI for Predictive Analytics on Employee Attrition -- Graph Convolutional Neural Networks for Nuclei Segmentation from Histopathology Images -- Performance Analysis of Cache Memory in CPU -- Extraction of Single Chemical Structure from Handwritten Complex Chemical Structure with Junction Point Based Segmentation -- Automatic Mapping of Deciduous and Evergreen Forest by Using Machine Learning and Satellite Imagery -- Systems and Applications -- RIN: Towards A Semantic Rigorous Interpretable Artificial Immune System for Intrusion Detection -- SVRCI: An Approach for Semantically Driven Video Recommendation Incorporating Collective Intelligence -- Deep Learning based Model for Fundus Retinal Image Classification -- Reliable Network-Packet Binary Classification -- SemKnowNews: A Semantically Inclined Knowledge Driven Approach for Multi-Source Aggregation and Recommendation of News with a focus on Personalization -- Extraction and Analysis of Speech Emotion Features using Hybrid Punjabi Audio Dataset -- Human Activity Recognition in Videos using Deep Learning -- Brain Tumor Classification using VGG-16 and MobileNetV2 Deep Learning Techniques on Magnetic Resonance Images (MRI) -- Five-Year Life Expectancy Prediction of Prostate Cancer Patients Using Machine Learning Algorithms -- An Ensemble MultiLabel Classifier for Intra-Cranial Haemorrhage Detection from Large, Heterogeneous and Imbalanced Database -- A Method for Workflow Segmentation and action prediction from video data - AR Content -- Convolutional Neural Network Approach for Iris Segmentation -- Reinforcement Learning Algorithms for Effective Resource Management in Cloud Computing -- Corpus Building for Hate Speech Detection of Gujarati Language -- Intrinsic use of Genetic Optimizer in CNN Towards Efficient Image Classification -- A Software System for Smart Course Planning -- Meetei Mayek Natural Scene Character Recognition using CNN -- Utilization of Data Mining Classification Technique to Predict the Food Security Status of Wheat -- Hybrid Techniques -- QoS-Aware Service Placement for Fog Integrated Cloud using Modified Neuro-Fuzzy Approach -- Optimizing Public Grievance Detection Accuracy through Hyperparameter Tuning of Random Forest and Hybrid Model. .

Sommario/riassunto	This book constitutes the refereed proceedings of the 4th International Conference on Soft Computing and its Engineering Applications, icSoftComp 2022, held in Changa, Anand, India during December 9–10, 2022. The 33 full papers and 3 short papers included in this book were carefully reviewed and selected from 342 submissions. They were organized in topical sections as follows: Theory and Methods; Systems and Applications; and Hybrid Techniques.