

1. Record Nr.	UNINA9910903794303321
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Titolo	Data Science : 10th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2024, Macao, China, September 27–30, 2024, Proceedings, Part III // edited by Chengzhong Xu, Haiwei Pan, Chen Yu, Jianping Wang, Qilong Han, Xianhua Song, Zeguang Lu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9787-49-1
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (360 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2215
Altri autori (Persone)	PanHaiwei YuChen WangJianping HanQilong SongXianhua LuZeguang
Disciplina	006.312
Soggetti	Data mining Application software Machine learning Education - Data processing Data Mining and Knowledge Discovery Computer and Information Systems Applications Machine Learning Computers and Education Dades massives Mineria de dades Aprenentatge automàtic Congressos Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

-- Infrastructure for Data Science. -- Android malware detection method based on machine learning. -- A lightweight edge network intrusion detection system based on MobileVit. -- TRAFFICNET: A NOVEL NETWORK PERFORMANCE PREDICTION MODEL VIA AGGREGATOR-BASED ENHANCEMENT. -- Social Media and Recommendation System. -- Sentiment analysis for public opinion based on MapReduce and PSO-SVR. -- Personalized Novel Recommendation System Based on Filtering and Sentiment Analysis. -- Enhancing Relevance and Efficiency in Visual Question Generation through Redundant Object Filtering. -- Chinese Named Entity Recognition Algorithm integrating Vocabulary Information. -- WSDSum:Unsupervised Extractive Summarization Based. -- IPFS-DKRM: an efficient keyword retrieval model of IPFS based on ART. -- Multimedia Data Management and Analysis. -- Multi-Modal Variable-Channel Spatial-Temporal Semantic Action Recognition Network. -- Enhanced and pruned motion planning based on bird's-eye view. -- CCU-NET: CBAM and Cascaded Edge Detection Optimization U-NET for Remote Sensing Image Segmentation. -- Speech Emotion Recognition Using U-Net. -- Non-Invasive Load Decomposition Model Based On Inception-SimAM-BiLSTM. -- A Data-driven Coordinated Active And Reactive Dispatching Strategy For Photovoltaics. -- PDTNet: An Image-Based Model for PV Panel Defect Detection. -- SAMCNet:A Multi-Channel Face Anti-Spoofing Network Combined with Hyperspectral Images via Self-Attention Mechanism. -- Image Tampering Detection Method Based on Hybrid Attention Mechanism. -- ZhouStage-zero A Dynamic Ensemble method for Intrusion Detection in Industrial Control System. -- High-precision Anime Conversion Model based on Generative Adversarial Networks. -- Anomaly Segmentation in Foggy Weather for Autonomous Driving with Adaptive Learnable Filters. -- Image tampering localization based on dual-stream feature fusion. -- Multi-scale Image Tampering Detection Using Inception-UNet Network. -- Fetal Congenital Heart Disease Diagnosis Based On CBAM-Enhanced ResNet-50. -- Transformers for Single Object Tracking: Temporal Context Propagation and Frame Relationship Modeling. -- AFETY HELMET WEARING DETECTION BASED ON YOLOv7.

This three-volume set CCIS 2213-2215 constitutes the refereed proceedings of the 10th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2024, held in Macau, China, during September 27–30, 2024. The 74 full papers and 3 short papers presented in these three volumes were carefully reviewed and selected from 249 submissions. The papers are organized in the following topical sections: Part I: Novel methods or tools used in big data and its applications; applications of data science. Part II: Education research, methods and materials for data science and engine; data security and privacy; big data mining and knowledge management. Part III: Infrastructure for data science; social media and recommendation system; multimedia data management and analysis.