

1. Record Nr.	UNINA9910869169003321
Autore	Kountchev Roumen
Titolo	New Approaches for Multidimensional Signal Processing : Proceedings of International Workshop, NAMSP 2023 / / edited by Roumen Kountchev, Rumen Mironov, Ivo Draganov, Roumiana Kountcheva, Kazumi Nakamatsu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819701094
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (336 pages)
Collana	Smart Innovation, Systems and Technologies, , 2190-3026 ; ; 385
Altri autori (Persone)	MironovRumen DraganovIvo KountchevaRoumiana NakamatsuKazumi
Disciplina	621.3822
Soggetti	Signal processing Computational intelligence Artificial intelligence Signal, Speech and Image Processing Computational Intelligence Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Deep Representation and Analysis of Visual Information, Based on the IDP Decomposition -- Some Trends in Application of Geometric Approaches in Multimodal Medical Image Fusion -- Weighted Tensor Least Angle Regression for Solving Sparse Weighted Multilinear Least Squares Problems -- Research on Behavior Control Method in 3D Virtual Animation Design based on the Purpose of Improving the Effect of Overseas Dissemination -- The Positive Exertion of "Fuzzy Control" in Art Appreciation Class -- Discussion on the Establishment and Application of Intelligent Design Platform for Concrete Proportioning -- Locally Adaptive Processing of Color Tensor Images Represented as Vector Fields -- Energy Efficient VgSOT-MTJ based 1 bit subtractor -- Hybrid Prediction Model for Mechanical Properties of Low Alloy Steel based on SVR-MLP -- A Human-inspired Semantic SLAM Based on

Parking-Slot Number for Autonomous Valet Parking -- Review of the security risks and practical concerns with current and future (6G) communications technology -- Effect of Rehabilitation Robot Training on Cognitive Function in Stroke Patients: A Systematic Review and Meta-analysis -- The Application Value of Virtual Reality Navigation Combined with Rapid on-site Evaluation in CT-guided Lung Biopsy -- Gray and White Matters Segmentation in Brain CT Images using Multi-Task Learning from Paired CT and MR Images -- Wearable Long-term Graph Learning for Non-invasive Mental Health Evaluation -- Music Personalized Recommendation System Based on Deep Learning -- Handwritten Mathematic Expression Conversion to Docx -- Application of Image Processing in Air-ground Combined Fire Fighting System -- Design and Realization of Mobile Terminal Side Time Synchronization Based on FPGA -- Exploration of Drone Trajectory Planning in Unknown Environments using Reinforcement Learning -- A Method for Traffic Flow Prediction based on Spatiotemporal Graph Network in Internet of Vehicles -- Research on Behavior Control Method in 3D Virtual Animation Design -- Research on Visual Communication Characteristics and Visual Narrative Change of VR News in We-Media Era -- Power Internet of Things Sharing Terminal Based on Power Carrier Communication Technology -- A Image-content-based Adaptive Tile Partitioning Algorithm.

Sommario/riassunto

This book is a collection of papers presented at the International Workshop on New Approaches for Multidimensional Signal Processing (NAMSP 2023), held at Technical University of Sofia, Sofia, Bulgaria, during 6–8 July 2023. The book covers research papers in the field of N-dimensional multicomponent image processing, multidimensional image representation and super-resolution, 3D image processing and reconstruction, MD computer vision systems, multidimensional multimedia systems, neural networks for MD image processing, data-based MD image retrieval and knowledge data mining, watermarking, hiding and encryption of MD images, MD image processing in robot systems, tensor-based data processing, 3D and multi-view visualization, forensic analysis systems for MD images, and many more.
