1. Record Nr. UNINA9910743338703321

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Titolo	New Approaches for Multidimensional Signal Processing : Proceedings of International Workshop, NAMSP 2021 / / edited by Roumen Kountchev, Rumen Mironov, Kazumi Nakamatsu
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	981-16-8558-4 981-16-8557-6
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (330 pages)
Collana	Smart Innovation, Systems and Technologies, , 2190-3026 ; ; 270
Disciplina	621.3822
Soggetti	Signal processing Artificial intelligence Biomedical engineering Signal, Speech and Image Processing Artificial Intelligence Biomedical Engineering and Bioengineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Masked Face Detection using Artificial Intelligent Techniques -- Object Motion Detection in Video by Fusion of RPCA and NMF Decompositions -- Hierarchical Decomposition of Third-order Tensor trough Adaptive Branched Inverse Difference Pyramid Based on 3D-WHT -- Multimodal Technique for Human Authentication using Fusion of Palm and Dorsal Hand Veins -- SIFT based Feature Matching Algorithm for Cartoon Plagiarism Detection -- Image Recognition Technology Based Evaluation Index of Ship Navigation Risk in Bridge Area -- Equalization of Directional Multidimensional Histograms of Matrix and Tensor Images -- Small Object Detection of Remote Sensing Images Based on Residual Branch of Feature Fusion -- Meta-Learning with Logistic Regression for Multi-Classification -- Measurement for Blade Edge Based on Machine Vision.
Sommario/riassunto	This book comprises a collection of papers presented at the International Workshop on New Approaches for Multidimensional Signal Processing (NAMSP 2021), held at Technical University of Sofia, Sofia,

Bulgaria, during 08–10 July 2021. 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.