

1. Record Nr.	UNINA9910917783903321
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Titolo	Multidimensional Signal Processing: Methods and Applications : Proceedings of the Fifth International Conference on 3D Imaging Technologies—Multidimensional Signal Processing and Deep Learning, Volume 1 // edited by Roumen Kountchev, Srikanta Patnaik, Yingkai Liu, Roumiana Kountcheva
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-9751-81-0
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (400 pages)
Collana	Smart Innovation, Systems and Technologies, , 2190-3026 ; ; 400
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Disciplina	006.3
Soggetti	Computational intelligence Artificial intelligence Signal processing Multimedia systems Computational Intelligence Artificial Intelligence Signal, Speech and Image Processing Multimedia Information Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Evaluation of Ultrasonic Doppler Signal Quality Based on Deep Learning -- 2. Tensor Compression Based on Tensor Train Decomposition -- 3. Digital Twin Technology Approach Based on the Hierarchical IDP Tensor Decomposition -- 4. Modeling Technology for Complex Dynamic Operating Environment of Power Grid Based on Digital Twins -- 5. Design of a Digital Twin Platform Based on Distributed Computing and Resource Optimization Algorithms -- 6. Deep Learning Network Optimization Combining 3D Imaging and Multidimensional Signal Processing -- 7. Time Series Prediction Application of Deep Learning in Multidimensional Signal Processing -- 8. Improving of Abstractive Summarization with Graph Sequence Model

-- 9. Advancing Semantic Segmentation and Interpretation of 3D Images through Integrated Deep Learning and Natural Language Processing Techniques -- 10. Children's Toy Product Design Based on Augmented Reality Technology.

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Sommario/riassunto

This book presents high-quality research in the field of 3D imaging technology. The fifth edition of International Conference on 3D Imaging Technology (3DDIT-MSP&DL) continues the good traditions already established by the first four editions of the conference to provide a wide scientific forum for researchers, academia, and practitioners to exchange newest ideas and recent achievements in all aspects of image processing and analysis, together with their contemporary applications. The conference proceedings are published in two volumes. The main topics of the papers comprise famous trends such as: 3D image representation, 3D image technology, 3D images and graphics, and computing and 3D information technology. In these proceedings, special attention is paid at the 3D tensor image representation, the 3D content generation technologies, big data analysis, and also deep learning, artificial intelligence, the 3D image analysis and video understanding, the 3D virtual and augmented reality, and many related areas. The first volume contains papers in 3D image processing, transforms, and technologies. The second volume is about computing and information technologies, computer images, and graphics and related applications. The two volumes of the book cover a wide area of the aspects of the contemporary multidimensional imaging and the related future trends from data acquisition to real-world applications based on various techniques and theoretical approaches.

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