

1. Record Nr.	UNINA9910720077103321
Titolo	3D Imaging—Multidimensional Signal Processing and Deep Learning : Images, Augmented Reality and Information Technologies, Volume 1 // edited by Srikanta Patnaik, Roumen Kountchev, Yonghang Tai, Roumiana Kountcheva
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2023
ISBN	981-9912-30-X
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (297 pages)
Collana	Smart Innovation, Systems and Technologies, , 2190-3026 ; ; 349
Disciplina	621.3822
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 bibliografia	Includes bibliographical references and index.
Nota di contenuto	A Review of Temporal Network Analysis and Applications -- A Knowledge Representation Method for Hierarchical Diagnosis Decision-making Under Uncertain Conditions -- Research and Implementation of Hybrid Storage Method for Multi-Source Heterogeneous Data of Electric Distribution Network -- Research on Measuring Method of Ball Indentation Based on MATLAB Image Edge Detection -- Multi-Feature Extraction of Mineral Zoning of Tabling Through Deep Semantic Segmentation -- Research on Mass Image Data Storage Method for Data Center -- Research on Virtual and Real Spatial Data Interconnection Mapping Technology for Digital Twin -- Prediction of Breast Cancer Via Deep Learning -- Scheme Design of Network Neighbor Discovery Algorithm Based on the Combination of Directional Antenna and Multi-Channel Parallelism -- Ship Target Detection in Remote Sensing Image Based on Improved RetinaNet -- Research on

the Application of 3D Modeling Technology in Mechanical Structure Teaching -- 2D Numerical Model Used to Investigate the Influence of Vegetation on Geomorphological Evolution of Mudflats -- Design and Experimental Verification of High Functional Density Cubesat System -- Space Design of Exhibition Hall Based on Virtual Reality -- Identification of Expressway Traffic States Based on the Enhanced FCM Algorithm -- Algorithms Applied in Soft Tissue Deformation Simulation: a Survey -- Soft Tissue Cutting Based on Position Dynamics -- Research on Application Technology of Multi-Source Fusion of 3D Digital Resources in Power Grid.

Sommario/riassunto

This book presents high-quality research in the field of 3D imaging technology. The fourth edition of International Conference on 3D Imaging Technology (3DDIT-MSP&DL) continues the good traditions already established by the first three 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 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.
