1. Record Nr.

UNINA9910483241403321

Titolo

Advances in 3D Image and Graphics Representation, Analysis, Computing and Information Technology : Methods and Algorithms, Proceedings of IC3DIT 2019, Volume 1 / / edited by Roumen Kountchev, Srikanta Patnaik, Junsheng Shi, Margarita N. Favorskaya

Pubbl/distr/stampa

Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020

ISBN

981-15-3863-8

Edizione

[1st ed. 2020.]

Descrizione fisica

1 online resource (504 pages)

Collana

Smart Innovation, Systems and Technologies, , 2190-3018 ; ; 179

Disciplina

006.3

Soggetti

Computational intelligence
Signal processing
Image processing
Speech processing systems
Optical data processing
Computational Intelligence
Signal, Image and Speech Processing
Image Processing and Computer Vision

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

Nota di contenuto

1. Study Optimization of Thermal Analysis of Anisotropic Materials in 3D Field Based on One Dimensional Heat Conduction Equation Model -- 2. Shape Retrieval for 3D Models Based on MRF -- 3. Numerical Conformal Mapping Based on Improved Hermitian and Skew-Hermitian Splitting Method -- 4. Hierarchical Clustering Based Video Summarization -- 5. Research on Multi-objective Optimization Problem of Engineering Project in 3D Field Based on Improved Particle Swarm Optimization Algorithm -- 6. 3D Path Planning Based on Improved Particle Swarm Optimization Algorithm -- 7. Improving Parallel Magnetic Resonance Imaging Reconstruction Using Nonlinear Time Series Analysis -- 8. Low Computational Complexity Third-Order Tensor Representation through Inverse Spectrum Pyramid.

Sommario/riassunto

This book gathers selected papers presented at the conference "Advances in 3D Image and Graphics Representation, Analysis,

Computing and Information Technology," one of the first initiatives devoted to the problems of 3D imaging in all contemporary scientific and application areas. The aim of the conference was to establish a platform for experts to combine their efforts and share their ideas in the related areas in order to promote and accelerate future development. This second volume discusses algorithms and applications, focusing mainly on the following topics: 3D printing technologies; naked, dynamic and auxiliary 3D displays; VR/AR/MR devices; VR camera technologies; microprocessors for 3D data processing; advanced 3D computing systems; 3D data-storage technologies; 3D data networks and technologies; 3D data intelligent processing; 3D data cryptography and security; 3D visual quality estimation and measurement; and 3D decision support and information systems.