

1. Record Nr.	UNINA9910151932003321
Autore	Turaev Vladimir
Titolo	Homotopy Quantum Field Theory : With Appendices by Michael Mger and Alexis Virelizier / / Vladimir Turaev
Pubbl/distr/stampa	Zuerich, Switzerland, : European Mathematical Society Publishing House, 2010
ISBN	3-03719-586-X
Descrizione fisica	1 online resource (290 pages)
Collana	EMS Tracts in Mathematics (ETM) ; 10
Classificazione	57-xx16-xx18-xx81-xx
Soggetti	Algebraic topology Manifolds and cell complexes Associative rings and algebras Category theory; homological algebra Quantum theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Homotopy Quantum Field Theory (HQFT) is a branch of Topological Quantum Field Theory founded by E. Witten and M. Atiyah. It applies ideas from theoretical physics to study principal bundles over manifolds and, more generally, homotopy classes of maps from manifolds to a fixed target space. This book is the first systematic exposition of Homotopy Quantum Field Theory. It starts with a formal definition of an HQFT and provides examples of HQFTs in all dimensions. The main body of the text is focused on 2-dimensional and 3-dimensional HQFTs. A study of these HQFTs leads to new algebraic objects: crossed Frobenius group-algebras, crossed ribbon group-categories, and Hopf group-coalgebras. These notions and their connections with HQFTs are discussed in detail. The text ends with several appendices including an outline of recent developments and a list of open problems. Three appendices by M. Mger and A. Virelizier summarize their work in this area. The book is addressed to mathematicians, theoretical physicists, and graduate students interested in topological aspects of quantum field theory. The

exposition is self-contained and well suited for a one-semester graduate course. Prerequisites include only basics of algebra and topology.

2. Record Nr.	UNINA9910484161503321
Titolo	Human Centered Computing : 6th International Conference, HCC 2020, Virtual Event, December 14–15, 2020, Revised Selected Papers / / edited by Qiaohong Zu, Yong Tang, Vladimir Mladenovi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-70626-5
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XIII, 478 p. 258 illus., 209 illus. in color.)
Collana	Information Systems and Applications, incl. Internet/Web, and HCI, , 2946-1642 ; ; 12634
Disciplina	004
Soggetti	Computer networks Coding theory Information theory Data mining Application software Numerical analysis Computer Communication Networks Coding and Information Theory Data Mining and Knowledge Discovery Computer and Information Systems Applications Numerical Analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Dynamic Pick and Place Trajectory of Delta Parallel Manipulator -- Design of aquatic product traceability coding scheme based on EPC label -- DEVS-based Modeling and Simulation of Wireless Sensor Network -- Spatial Reciprocity Aided CSI Acquirement for HST Massive MIMO -- A flexible film thermocouple temperature sensor -- Design of

a Morphing Surface Using Auxetic Lattice Skin for Space-Reconfigurable Reflectors -- The Method of User Information Fusion Oriented to Manufacturing Service Value Net -- Image Fusion Method for Transformer Substation Based on NSCT and Visual Saliency -- Permission Dispatching Mechanism Inside and Outside of the Warranty Period for Equipment Maintenance Service System -- New Technology Development and Application Trends Based on Monitoring of Patent Data -- A K-means clustering optimization algorithm for spatiotemporal trajectory data -- Temporal and Spatial Changes of Ecosystem Health in Guangdong Province in Recent 11 years -- Salient Attention Model and Classes Imbalance Remission for Video Anomaly Analysis with Weak Label -- A Data Fusion Model based on Multi-source Non-real-time Intelligence -- Ancient Chinese Lexicon Construction Based on Unsupervised Algorithm of Minimum Entropy and CBDB Optimization -- Availability Analysis of GNSS RAIM based on Maximum Undetectable Position Bias -- Psychological semantic differences of Zhang Juzheng before and after DuoQing event -- Digital Rights Management Platform Based on Blockchain Technology -- A Deep Hybrid Neural Network Forecasting for Multivariate Non-stationary Time Series -- Risk Assessment of Flood Disasters in Hechi City Based on GIS -- Cultural Symbol Recognition Algorithm Based on CTPN+CRNN -- Spatial-temporal Variation and Future Changing Trend of NDVI in the Pearl River Basin from 1982 to 2015 -- An Improved Collaborative Filtering Algorithm Based on Filling Missing Data -- Diagnosis method of Alzheimer's disease in PET image based on CNN multi-mode network -- Research on Multi-floor Path Planning Based on Recommendation Factors -- E-commerce Review Classification Based on SVM -- Experimental Research of Galfenol Composite Cantilever -- A capacitive flexible tactile sensor -- Multi-objective optimization of e-commerce logistics warehouse layout based on genetic algorithm -- Magnetic Circuit Design of Galfenol Composite Cantilever.-A MEMS-based piezoelectric pump with a low frequency and high flow -- Micro-video learning resource portrait and its application -- Research on Downscaling and Correction of TRMM Data in the Central China -- Research on the Knowledge Map of Combat Simulation Domain Based on Relational Database -- Scale-Aware Network with Attentional Selection For Human Pose Estimation -- Short-term Traffic Flow Prediction Based on SVR and LSTM -- A Logging Overhead Optimization Method Based on Anomaly Detection Model -- Multi-objective collaborative optimization of multi-level inventory: a model driven by after-sales service -- The Research About Spatial Distribution of Urban Functions Based on POI Data -- The Psychological Characteristics Changes Analysis of Su Shi before and after the Wutai Poetry Case -- Based on the CC-LIWC -- A Conference Publishing System Based on Academic Social Network -- Software Component Library Management Mechanism for Equipment Parts Service Value-Net -- No-reference quality assessment for Uav patrol images of Transmission line -- An Inclusive Finance Consortium Blockchain Platform for Secure Data Storage and Value Analysis for Small and Medium-sized Enterprises -- An Under-Sampling Method of Unbalanced Data Classification Based on Support Vector -- Image classification algorithm for transmission line defects based on dual-channel feature fusion -- Research on Alarm Causality Filtering Based on Association Mining -- Exploring Psycholinguistic Differences between Song and Ming Emperors based on Literary Edicts -- The Influence of the Reform of Entrance Examination on University Development.

HCC 2020, held in virtually, due to COVID- 19, in December 2020. The 28 full and 20 short papers presented in this volume were carefully reviewed and selected from a total of 133 submissions. The conference focuses on the following three main themes as follows: Data such as Data Visualization, Big Data, Data Security, Hyper connectivity such as Internet of Things, Cloud Computing, Mobile Network and Collaboration such as Collective Intelligence, Peer Production, Context Awareness and much more.
