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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Knowledge Graph -- Temporal Knowledge Graph Embedding for Link Prediction -- A Multi-modal Knowledge Graph Platform Based on Medical Data Lake -- Fusion of Natural Language and Knowledge Graph for Multi-hop Reasoning -- Commonsense Knowledge Construction with Concept and Pretrained Model -- Simplifying Knowledge-aware Aggregation for Knowledge Graph Collaborative Filtering -- Bi-directional Neighborhood-Aware Network for Entity Alignment in Knowledge Graphs -- SAREM: Semi-supervised Active Heterogeneous Entity Matching Framework -- LocRDF: An Ontology-Aware Key-Value Store For Massive RDF Data -- Multi-view based Entity Frequency-aware Graph Neural Network for Temporal Knowledge Graph Link Prediction -- Semantic Reasoning Technology on Temporal Knowledge Graph -- Multiple-granularity Graph for Document-level Relation

Extraction -- A Fine-Grained Anomaly Detection Method Fusing Isolation Forest and Knowledge Graph Reasoning -- Design of trademark recommendation system based on knowledge graph -- Natural Language Processing -- An integrated Chinese malicious webpages detection method based on pre-trained language models and feature fusion -- Code comments generation with data flow-guided Transformer -- Coreference Resolution with Syntax and Semantics -- Self-adaptive Context Reasoning Mechanism for Text Sentiment Analysis -- AOED: Generating SQL with the Aggregation Operator Enhanced Decoding -- Multi-Granularity Chinese Text Matching Model Combined With Bidirectional Attention -- World Wide Web -- Data Fusion Methods with Graded Relevance Judgment -- Highway Accident Localization Based on Virtual Fence for Intelligent Transportation Systems -- Design and Implementation of Analyzer Management System Based on Elasticsearch -- A Hybrid Model for Spatio-Temporal Information Recognition in COVID-19 Trajectory Text -- A Research on the Theory and Technology of Trusted Transaction in Modern Service Industry -- Causal Effect Estimation Using Variational Information Bottleneck.-Fault Diagnosis of Web Services Based on Feature Selection -- The Change of Code Metrics for Predicting the Label Change on Evolutionary Projects: An Empirical Study -- Identifying influential spreaders in complex networks based on degree centrality -- Machine Learning -- A knowledge-guided method for disease prediction based on attention mechanism -- Machine Reading Comprehension Based On Hybrid Attention And Controlled Generation -- Contextual Policy Transfer in Meta-Reinforcement Learning via Active Learning -- Emotion Cause Pair Extraction based on Multitask -- Dynamic Alternative Attention for Visual Question Answering -- A Biomedical Trigger Word Identification Method Based on BERT and CRF -- Tackling Non-stationarity in Decentralized Multi-Agent Reinforcement Learning with Prudent Q-Learning -- Deep multi-mode learning for book spine recognition -- DEAR: Dual-level Self-Attention GRU for Online Early Prediction of Sepsis -- A Route Planning Method of UAV Based on Multiaircraft Cooperation -- An Improved Monte Carlo Denoising Algorithm Based on Kernel-Predicting Convolutional Network -- Research on target detection method based on improved YOLOv5 -- Diagnostic Prediction for Cervical Spondylotic Myelopathy Based on Multi-source Data in Electronic Medical Records -- Query Processing and Algorithm -- Weighted Cost Model for Optimized Query Processing -- A Data Dimensionality Reduction Method Based on mRMR and Genetic Algorithm for High-dimensional Small Sample Data -- Efficient Subhypergraph Containment Queries on Hypergraph Databases -- Logistics Distribution Route Optimization using Hybrid Ant Colony Optimization Algorithm -- Recommendation -- Multi-Preference Book Recommendation Method Based on Graph Convolution Neural Network -- Sentiment-aware Neural Recommendation with Opinion-based Explanations -- Dual-level Hypergraph Representation Learning for Group Recommendation -- GeoGTI: Towards A General, Transferable and Interpretable Site Recommendation -- LFM-C: AFriend Recommendation Algorithm for Campus Mutual Aid System -- Recommending Online Course Resources Based on Knowledge Graph -- Data Privacy and Security -- Multi-party Privacy-Preserving Record Linkage Method Based on Trusted Execution Environment -- Efficient Differential Privacy Federated Learning Mechanism for Intelligent Selection of Optimal Privacy Protection Levels -- Patient-Friendly Medical Data Security Sharing Scheme Based on Blockchain and Proxy Re-Encryption -- Spatial Data Publication Under Local Differential Privacy -- Big Data Analysis for Anti-Money Laundering: a Case of

Open Source Greenplum Application -- Blockchain -- Efficient Multi-Party Privacy-Preserving Record Linkage Based On Blockchain -- A Blockchain-based Scheme for Efficient Medical Data Sharing with Attribute-based Hierarchical Encryption -- B-Store, a general block storage and retrieval system for blockchain -- Enabling Verifiable Single-Attribute Range Queries on Erasure-Coded Sharding-Based Blockchain Systems -- An Efficient Query Architecture for Permissioned Blockchain -- MCQL: A Multi-node Consortium Blockchain Query Method Based on Node Dynamic Adjustment -- An Ethereum-based Image Copyright Authentication Scheme -- Modifiable Blockchain Based on Chebyshev Polynomial and Chameleon Hash Function.

Sommario/riassunto

This book constitutes the proceedings of the 19th International Conference on Web Information Systems and Applications, WISA 2022, held in Dalian, China, in September 2022. The 45 full papers and 19 short papers presented were carefully reviewed and selected from 212 submissions. The papers are grouped in topical sections on knowledge graph, natural language processing, world wide web, machine learning, query processing and algorithm, recommendation, data privacy and security, and blockchain.