1. Record Nr. UNISA996550552403316

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| Titolo | Transactions on Large-Scale Data- and Knowledge-Centered Systems LIV [[electronic resource] ] : Special Issue on Data Management - Principles, Technologies, and Applications / / edited by Abdelkader Hameurlain, A Min Tjoa, Omar Boucelma, Farouk Toumani |
| Pubbl/distr/stampa | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2023 |
| ISBN | 3-662-68014-9 |
| Edizione | [1st ed. 2023.] |
| Descrizione fisica | 1 online resource (141 pages) |
| Collana | Transactions on Large-Scale Data- and Knowledge-Centered Systems, , 2510-4942 ; ; 14160 |
| Altri autori (Persone) | TjoaA. Min<br>BoucelmaOmar<br>ToumaniFarouk |
| Disciplina | 005.3 |
| Soggetti | Application software<br>Data mining<br>Information storage and retrieval systems<br>Computer and Information Systems Applications<br>Data Mining and Knowledge Discovery<br>Information Storage and Retrieval |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Clock-G: Temporal graph management system -- TSPredIT: Integrated tuning of data preprocessing and time series prediction models -- A guide to the Tucker tensor decomposition for data mining: exploratory analysis, clustering and classification -- Challenges for Healthcare Data Analytics over Knowledge Graphs -- From Database Repairs to Causality in Databases and Beyond. |
| Sommario/riassunto | The LNCS journal Transactions on Large-scale Data and Knowledge-Centered Systems focuses on data management, knowledge discovery, and knowledge processing, which are core and hot topics in computer science. Since the 1990s, the Internet has become the main driving force behind application development in all domains. An increase in the demand for resource sharing across different sites connected through |

networks has led to an evolution of data- and knowledge-management systems from centralized systems to decentralized systems enabling large-scale distributed applications providing high scalability. This 54th issue of Transactions on Large-Scale Data and Knowledge-Centered Systems, contains three fully revised and extended papers and two additional extended keynotes selected from the 38th conference on Data Management - Principles, Technologies and Applications, BDA 2022. The topics cover a wide range of timely data management research topics on Temporal Graph Management, Tensor-based Data Mining, Time-Series Prediction, Healthcare Analytics over Knowledge Graphs, and Explanation of Database Query Answers.