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Transactions on Large-Scale Data- and Knowledge-Centered Systems LXI

Special Issue on Data Management - Principles, Technologies, and Applications

The LNCS journal Transactions on Large-scale Data and Knowledge-centered Systems focuses on data management systems and knowledge processing, which are core and hot topics in computer science. Over recent decades, the widespread adoption of parallel and distributed architectures, cloud systems, and intelligent infrastructures has led to an evolution of data- and knowledge-management systems from centralized systems to decentralized systems enabling large-scale data applications providing high scalability and elasticity. This, the 61st issue of Transactions on Large-scale Data and Knowledge-centered Systems contains six fully revised and extended papers selected from the 41st Conference on Data Management: Principles, Technologies and Applications, BDA 2025. The selected contributions address a broad range of timely research topics in data management, including graph optimization for information exposure, sequence similarity search, multi-model data systems, and data privacy.

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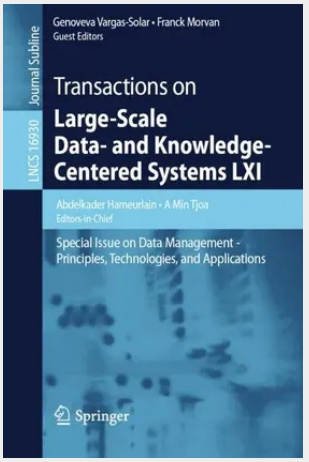

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