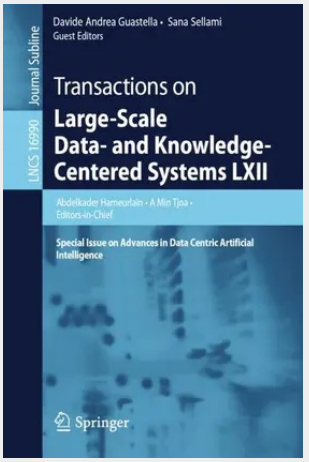
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Transactions on Large-Scale Data- and Knowledge-Centered Systems LXII

Special Issue on Advances in Data Centric Artificial Intelligence

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 the past 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 62nd issue of Transactions on Large-Scale Data- and Knowledge-Centered Systems presents five revised and extended papers from the EGC 2025 and EGC 2026 conferences. They cover a broad spectrum of current research in data-centric AI, including large-scale data quality profiling, ecological quality prediction from eDNA metabarcoding, context-aware energy consumption forecasting, and mixture-based generative modeling for 3D object completion.

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