



Sustainable Enterprise Resources Planning Systems: Current Status, Challenges, and Future Directions

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Message from the Guest Editors

Achieving sustainability in a firm requires a holistic, integrative, and complete view spanning not just the product and the manufacturing processes, but also the entire value chains, including manufacturing systems across multiple product life-cycles. This requires improved models, metrics for sustainability performance evaluation, and optimization techniques at product, process, and system levels. In the transitional period towards sustainability systems, organizations are practicing sustainability in their value chains as separate functions. Firms perform sustainability modeling and implement specific environmental or social management systems without integrating them into the management system, core business processes, and tools. Current information systems are not designed to capture the sustainability-related data and are not intended to support the management of data for all sustainability dimensions. Many pieces of these data could be qualitative and difficult to process and analyze. Thus, sustainable enterprise resource planning (S-ERP) systems are necessary to solve segregation and digitization problems.





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