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Agrologistics 4.0: Emerging Trends and Innovative Research in Data-Driven Agri-Food Logistics

Guest Editor:

Dr. Behzad Behdani

Operations Research and
Logistics Group, Wageningen
University, Wageningen, The
Netherlands

behzadb09@gmail.com

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Message from the Guest Editor

A main trend in agri-food chains over the past two decades is the wide application of information and communication technology (ICT) in different stages of the chain, from harvesting to transportation to the final consumer. All these technologies—including robotics, IoT sensors, big data analytics, and cloud computing—have resulted in a big volume of data in the sector. Safety and security initiatives have also further stimulated data gathering and information sharing along the chain. As a result, the agri-food sector is a data-rich domain. However, in many cases, the value of existing data to improve the supply chain performance and logistics processes has not been sufficiently explored. At the same time, several recent studies show that despite substantial investments in ICT systems, many organizations have failed to obtain the expected improvements in their supply chain performance. This implies the need for systematic and innovative methods to re-design data-driven processes in agri-food logistics.



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