

Special Issue

Innovative Artificial Intelligence Approaches for Effective Healthcare Logistics and COVID-19 Response

Message from the Guest Editors

In the last decade, hospital managers and healthcare practitioners have started paying ever more attention to logistics activities. In today's world, different logistics-based decisions in the supply chains of hospitals and homecare services have to be made. These decisions are related to the healthcare facility's location, the routing and scheduling of workers and patients, stock management, purchasing, and all the supply chain activities for the healthcare systems and other relevant systems. It is very difficult to simulate and model such practical systems with different real-life constraints. Moreover, the COVID-19 pandemic has imposed additional challenges for healthcare supply chain stakeholders that have to be accounted for when planning different supply chain operations for healthcare. Developing intelligence-based approaches, such as computer-aided techniques, could be very useful for managers and practitioners in this domain. Predictive methods, on the other hand, can assist relevant healthcare stakeholders who often deal with various sources of uncertainty in their operations.

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