

Special Issue

Technological Innovation, Adoption, and Implementation in Agri-Food Supply Chains

Message from the Guest Editors

Agri-food supply chains (AFSCs) represent the interconnected events, from farm to fork, that include all the stages of production, processing, wholesaling, distribution, and consumption. AFSCs aim to provide sustainable, affordable, safe, and sufficient food, fibre, and fuel to consumers. However, AFSCs are facing various challenges that make it difficult to undertake these tasks. For example, climate change causes extreme weather conditions that may affect farm production, and geopolitical events can result in increases in the costs of agrichemicals and fertilizers. In the face of increasingly uncertain business and environmental environments, the only feasible way to ensure smooth and effective operations in AFSCs is by facilitating, adopting, and implementing technological innovations. These include intelligent greenhouses, water and fertilizer integrated systems, automatic harvesters and tractors, drones, and cloud computing, and they are currently being developed and gradually applied to different stages of AFSCs.

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