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Innovative Modelling Approaches in Agricultural Systems and Food Processes

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Message from the Guest Editors

Agricultural and food systems management is crucial to ensure feeding of a growing world population while keeping or even improving key issues like health, safety and environmental sustainability. While important advances in the last century have been done regarding quantification and mathematical modelling of agri-food processes, the continuous development of basic science opens new gaps to be covered. Agri-food systems are biological systems with an inherent dynamic and non-linear nature. Interactions among different systems and with the environment make the modelling process quite complex.

This Special Issue aims to develop and explore modelling tools applicable to agricultural and food systems to support researchers in different areas, food scientists, engineers, and agri-food policy managers. It is not limited to the development and validation of novel mathematical models, but covers every step in the modelling process. For instance, (optimal) experiment design, decision-aiding tools, optimization, big data & machine learning, or software development are also of interest.

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