Special Issue

Modelling of the Functioning of Multi-Species Cropping Systems

Message from the Guest Editor

The agro-ecological transition of the world's agriculture is now seriously underway, particularly in response to the challenges of pesticide reduction, food sovereignty and adaptation to climate change. It relies heavily on the reintroduction and enhancement of biodiversity in cropping systems to generate multiple ecosystem services. The question of steering these complex systems and optimizing them, in relation to the functioning of underground and aerial interfaces, then becomes crucial and requires recourse to modelling. We invite you to share your success stories based on research conducted on multiple cropping systems around the world in this Special Issue. Submissions on the following topics (but not limited to) are welcome: (1) modelling the sharing of above- and below-ground resources in multiple cropping systems; (2) modelling ecosystem services in multiple cropping systems; (3) generic 1D/2D/3D platforms for spatio-temporal modelling of multiple cropping systems (crops, trees, cover crops); (4) modelling viability scenarios of multiple crops under climate change constraint; (5) computer-aided design of viable multi-species systems.

Guest Editor

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Deadline for manuscript submissions

closed (1 September 2021)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/76322

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