Special Issue

Agent-Based Modelling

Message from the Guest Editors

In the last 30 years, agent-based modeling (ABM) and related similar approaches with different nuances and names (e.g., agent-based systems (ABSs), individual-based modeling (IBM), multi-agent systems (MASs), or multi-agent-based simulations (MABSs)) have shifted from being a heterodox modeling approach to become a recognized research methodology, in many cases one of the mainstream modeling techniques, in a wide range of scientific disciplines. This modeling approach presents important advantages, since it facilitates the abstraction of complex systems, the integration of spatial elements, including heterogeneity in the representation, and enables the use of computers as an inference engine. However, it also entails some problems such as the use of induction for the generalization of results, the verification and validation of the models, or the reuse of code and scalability. This Special Issue not only aims to advance the methodological elements of the modeling process using agent technologies, but also to showcase rigorous uses of theoretical and empirical ABM in different applied domains and disciplines. Fore more information:https://www.mdpi.com/si/50169

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Deadline for manuscript submissions

closed (30 September 2021)

Modelling

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mdpi.com/si/50169

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