

New methods and epistemologies to explore simulation models - II

Satellite Session - Conference on Complex Systems 2019
Singapore - 2nd October 2019

Topic

This satellite session focuses on methods to explore, validate and calibrate simulation models, and on epistemological evolutions going along with these new practices. It aims at extending the discussions introduced at CCS2018 in the previous satellite on the exploration of simulation models. This previous session presented the OpenMOLE platform and interrogated the use of high performance computing together with optimization heuristics such as evolutionary computation for the calibration and validation of simulation models. This second session will ask similar questions but (i) aiming at a higher disciplinarity, possibly including disciplines in which simulation is not a mainstream practice either because of the difficulty to quantify such as in archeology, or because of a stronger confidence given to other methods such as analytical resolution in economics; (ii) aiming at a higher epistemological component in the discussion, to reflexively investigate how simulation and high performance computing can transform a discipline and what are the conditions for acceptably validating knowledge in that context.

Call for papers

Contributions are open to any research developing new methods, practices, theories and epistemologies related to models of simulation. No discipline is privileged as the debates are aimed at being interdisciplinary. Methodological contributions are as much welcomed as contributions in epistemology or history of science.

Abstract submission (max 500 words) is open until **30th June** on easychair at <https://easychair.org/conferences/?conf=simexplo2019>.

Organizers

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