A Systemic Meta-Model for Socio-Environmental Systems

Jérôme Dantan, Yann Pollet and Salima Taibi

Abstract We propose a systemic meta-model for the sustainable simulation of socio-environmental complex systems. The approach presented integrates data uncertainty management, for both representing and manipulating rigorously quantities which may have a finite number of possible or probable values with their interdependencies. We also provide an operationalization of such models for both data retrieving, via an object-relational mapping, and model simulation, via series of triples, which are linked to examples in the field of agriculture.

J. Dantan (✉) · Y. Pollet
CEDRIC, CNAM, 292 Rue Saint-Martin, Paris 75003, France
e-mail: jdantan@esitpa.fr

Y. Pollet
e-mail: yann.pollet@cnam.fr

J. Dantan · S. Taibi
Agri'terr, Esitpa, 3 Rue Du Tronquet CS 40118, Mont-Saint-Aignan 76134, France
e-mail: staibi@esitpa.fr

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