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Approach for Simulating Soil Loss from an Agro-Ecosystem Using Multi-Agent Simulation: A Case Study for Semi-Arid Ghana Reprinted from: Land 2015, 4(3), 607-626 http://www.mdpi.com/2073-445X/4/3/607 -- C. Michael Barton, Isaac Ullah and Arjun Heimsath How to Make a Barranco: Modeling Erosion and Land-Use in Mediterranean Landscapes Reprinted from: Land 2015, 4(3), 578-606 http://www.mdpi.com/2073-445X/4/3/578 -- Julia K. Clark and Stefani A. Crabtree Examining Social Adaptations in a Volatile Landscape in Northern Mongolia via the Agent-Based Model Ger Grouper Reprinted from: Land 2015, 4(1), 157-181, http://www.mdpi.com/2073-445X/4/1/157 -- Stefani A. Crabtree Simulating Littoral Trade: Modeling the Trade of Wine in the Bronze to Iron Age Transition in Southern France, Reprinted from: Land 2016, 5(1), 5, http://www.mdpi.com/2073-445X/5/1/5 -- S. M. Niaz Arifin, Rumana Reaz Arifin, Dilkushi de Alwis Pitts, M. Sohel Rahman, Sara Nowreen, Gregory R. Madey and Frank H. Collins Landscape Epidemiology Modeling Using an Agent-Based Model and a Geographic Information System, Reprinted from: Land 2015, 4(2), 378-412 http://www.mdpi.com/2073-445X/4/2/378 -- Peter George Johnson Agent-Based Models as "Interested Amateurs" Reprinted from: Land 2015, 4(2), 281-299 http://www.mdpi.com/2073-445X/4/2/281.

Sommario/riassunto

The use of agent-based models (ABMs) and modelling for understanding landscape change and dynamics continues to grow. One reason for the popularity of ABMs is that they provide a framework to represent multiple, discrete, multi-faceted, heterogeneous actors (human or otherwise) and their relationships and interactions between one another and their environment, through time and across space. This collection showcases innovative uses of ABMs for investigating and explaining landscape change and dynamics and to explore and identify how researchers in different disciplines can learn from one another to further innovate. The diverse range of processes and landscapes that ABMs are currently used to examine is clearly demonstrated, including: land-use decision making in agricultural landscapes; soil erosion in semi-arid environments; forest change in mountainous landscapes; trade in 1st Century BC southern France; social adaptations of herders in northern Mongolia; and malaria epidemiology in Kenya. A range of agent-based representation is used from the implied presence of agents, through comparing heterogeneous vs. aggregated representation of human activity, to alternative means of parameterizing individual agent behaviour. The collection will be of interest to all interested in innovative agent-based modelling for understanding landscape change, its causes and consequences for sustainability in the Anthropocene.

2.

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