Newly certified models in the CoMSES model library and newly published models added to the model library.

open
abm

... a node in the CoMSES Network

CoMSES Digest: Fall 2017

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From the Editor:

   Welcome to the CoMSES Digest, Fall 2017! This quarter we again focus on CoMSES activities- one of which will take place next week. The CoMSES Virtual Conference will be October 2 - 20; see the full text below (and, yes, that is a new CoMSES Website!)

John T. Murphy,
CoMSES Digest Editor

CoMSES News:

CoMSES Net Virtual Conference 2017

CoMSES 2017
October 2nd - October 20th 2017

Welcome to the first CoMSES Net virtual conference, CoMSES 2017!

October 2-20, 2017 CoMSES will host a virtual conference, which will be held online at the new CoMSES website (https://www.comses.net/conference/2017/). A number of panels are lined up with short recorded presentations and links to the models that are used. During the conference you can interact with the presenters about their presentation and their model. We hope that this experiment of a virtual conference will provide new ways for the CoMSES community to interact and engage across disciplines- and continents! There is no registration fee for the conference, but one needs to be registered as a CoMSES member.

From the Forums

General Forum

Title: What are the 4 most important social simulation papers a newcomer to the social simulation field should read?
https://www.openabm.org/forum/what-are-4-most-important-social-simulation-papers-newcomer-social-simulation-field-should

Title: CfP: Special Issue of Social Science Computer Review on "Simulation Models of Ethnocentrism and Diversity
https://www.openabm.org/forum/cfp-special-issue-social-science-computer-review-simulation-models-ethnocentrism-and-diversity

Jobs and Appointments

Note: Some of the postings have application deadlines that have already passed; we include all of them here for those who are curious about the state of the field, and remind those of you who may be actively searching for a new position that you can subscribe to this forum via the OpenABM website and receive these posts as soon as they are added.

For the information listed here, be sure to check the deadline as given in the original post or from the institutions directly.

Title: Participatory modelling researcher
https://www.openabm.org/forum/participatory-modelling-researcher

Title: New PhD Stipend for Modeling in Norway (over 50,000 USD salary for 3 years)
https://www.openabm.org/forum/new-phd-stipend-modeling-norway-over-50000-usd-salary-3-years

Title: Postdoc: Health Economics and Computational Modelling of Vaccination
https://www.openabm.org/forum/postdoc-health-economics-and-computational-modelling-vaccination

Title: PhD Position at HERUS-EPFL - shrinking housings' environmental footprints
https://www.openabm.org/forum/phd-position-herus-epfl-shrinking-housings-environmental-footprints

Title: Visiting Assistant Research Professor in Computational Simulation of Social Behavior (University of Central Florida)
https://www.openabm.org/forum/visiting-assistant-research-professor-computational-simulation-social-behavior-university

Title: Two Faculty Research Positions: Agent-based Modeling & System Dynamical Modeling
https://www.openabm.org/forum/two-faculty-research-positions-agent-based-modeling-system-dynamical-modeling

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Model Library

New Model Uploads
   Our new models include the usual wide range of topics. Dinuka Herath provides two models of goal attainment and problem solving, focusing on disorganization and team structure. Salwa Ismail has developed a model of civil revolution and protests. Bashar Ourabi's model examines policies that can foster innovation and 'brain gain'. And Marco Janssen has uploaded a model about fish and gold, in which a choice to fish or mine gold can have ecological consequences, and agents are permitted to choose their activities based on pure (selfish) rational behavior or by switching among optimizing, repetition, imitation or inquiry (termed the 'consumat approach').

Most Downloaded Models
   Eagle-eyed readers and devoted fans of the CoMSES Digest will recall that last quarter's download statistics were high: "... almost double the average...". This quarter the

total downloads returned to something closer to 'normal'. We are inspecting the numbers a bit more closely, and will be digging a little bit deeper into the download statistics in upcoming issues. There is a reason to suspect that some of our downloads are performed by 'bots'; this is actually almost a certainty, given that, by some estimates, over half of Internet traffic is actually bot-driven. This month's top downloads include a model that is currently in an 'unpublished' state; access to it is limited on the openabm model archive, but anyone with a direct link can still download it, and any bot that finds a link to it on another site can do so as well..

New Model Uploads

Simulation of the Effects of Disorganization on Goals and Problem Solving
Dinuka Herath

This is a model of the occurrence of disorganization and its impact on individual goal setting and problem-solving. This model therefore, explores the effects of disorganization on goal achievement.

Team Problem Solving and Motivation Under Disorganization
Dinuka Herath

The model combines the two elements of disorganization and motivation to explore their impact on teams. Effects of disorganization on team task performance (problem solving).

Towards an Agent-Based Model for Civil Revolution: Modeling Emergence of Protesters, Military Decisions, and Resulting State of
Salwa Ismail

This paper builds on a basic ABM for a revolution and adds a combination of behaviors to its agents such as military benefits, citizen's grievances, geographic vision, empathy, personality type and media impact.

Policy Formulation for Public Administration - Innovation
Bashar Ourabi

Innovation a byproduct of the intellectual capital, requires a new paradigm for the production constituents. Human Capital HC,Structural capital SC and relational capital RC become key for intellectual capital and consequently for innovation.

Lakeland 2
Marco A Janssen

Lakeland 2 is a simple version of the original Lakeland of Jager et al. (2000) Ecological Economics 35(3): 357-380. The model can be used to explore the consequences of different behavioral assumptions on resource and social dynamics.

Most Downloaded Models in the Model Library
(March16, 2017 – June 15, 2017)

1. (53 Downloads) APR-M: The Peer Review Model *by Francisco Grimaldo, Mario Paolucci*

2. (51 Downloads) 9 Maturity Levels in Empirical Validation *by Martin Rixin*

3. (51 Downloads) An agent-based model to identify management practices, integrity and performance in Kenya's and Ghana's Water Service Delivery. *by Francesc Bellaubi, Georg Holtz, and Claudia Pahl-Wostl*

4. (50 Downloads) FlowLogo: An agent-based platform for simulating complex human-aquifer interactions in managed groundwater systems *by Juan Carol Castilla-Rho*

5. (49 Downloads) (unpublished)

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