

Call for Papers

Special Issue of the *Journal of Simulation*

Agent-Based Modeling and Simulation

Guest Editors:

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The *Journal of Simulation (JOS)*, an official journal of The Operational Research Society, aims to publish methodological and technological advances in the application of simulation modelling-related theory and practice. JOS publishes material in a wide range of domains, including manufacturing, service, defence and healthcare, as it seeks to interest and provoke discussion within the wider simulation community.

JOS will publish a special issue on **Agent-based Modeling and Simulation**. The aim of this special issue is to provide a comprehensive guide on new ideas and results in the integration of Simulation of Multi-Agent Systems (MAS) and Agent-oriented Software Engineering (AOSE) domains. It will capture the state-of-the-art in such domains in terms of techniques and methodologies for agent-based modeling and simulation (ABMS), simulation-driven development processes for multi-agent systems, and simulation-oriented analysis of emergent agent behaviors in complex multi-agent systems. It will also identify potential research directions and technologies that will drive innovations within this domain. We expect the papers of the special issue to serve as a valuable reference for larger audience such as software architects, practitioners, developers, researchers, and students.

The special issue editors invite contributions in both theoretical development and innovative applications to practical problems in the areas of agent-based modelling and simulation. The review process will be the same as that used by the journal. Topics suitable for this special issue include, but are not limited to, the following:

- **Agent-based simulation techniques and methodologies**
- **Discrete-event simulation of Multi-Agent Systems**
- **Simulation as validation tool for the development process of MAS**
- **Agent-oriented methodologies incorporating simulation tools**
- **MAS simulation driven by formal models**
- **ABMS simulation toolkits and frameworks**
- **Testing vs. simulation of MAS**
- **Industrial case studies based on MAS and simulation/testing**
- **Agent Computational Economics (ACE) and Agent Computational Finance (ACF)**
- **Agent-based simulation of networked systems**
- **Scalability in agent-based simulation**

All manuscripts should be submitted via <http://www.palgrave-journals.com/jos/index.html>. More information about the journal and paper submission guidelines is available at the same link. You must select **ABMS** as the Article Type to make sure that your paper will be considered for the special issue.

The submission deadline is **15th December, 2011**. The plan is to publish the special issue in 2012. Inquiries on the special issue can be directed to the guest editors:

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