

## **SPECIAL ISSUE**

**Special Issue on:** New trends in Process Simulation and Modeling

**Area(s)/Field(s):** Production/Information systems/Operational Research

### **Guest Editor**

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### **Description about the Special Issue:**

Many business processes are so complex, interconnected and subject to variability. For those reasons, it is hard to understand the components evolution and interactions within the business processes without a dynamic model. Simulation and modeling approach is a good choice to predict processes performance, to compare alternatives and to establish the effect of several scenarios on performance. Moreover, if a process does not yet exist, or company is considering a new implementation, a simulation model can give a clue how well the proposed process will perform. In addition, process simulation and modeling is a growing and exciting research field.

The focus of this special issue is on bringing together researchers and practitioners from the areas of process management, computational intelligence, decision support, simulation and modeling. The technical objective is to exchange ideas and techniques from those areas as well as to establish a framework for the development of methodologies that integrate decision support, process management, technology, simulation and modeling. Consequently, papers that address these topics are especially sought.

**Subject Coverage:**

Suitable topics include, but are not limited to:

- Business process simulation.
- Process optimization using simulation.
- Dynamic Modeling.
- UML/AUML modeling.
- Multiagent-based simulation.
- Computational Intelligence based simulation.
- Discrete Event Simulation.
- Simulation and modeling based risk analysis.
- Supply Chain and logistics simulation and modeling.
- Parallel and distributed simulation.
- Multi-Paradigm simulation.
- Case studies of process simulation.
- Emerging or extended simulation tools.

**Authors' guideline:**

Authors should follow the guidelines of the Journal of Industrial Engineering and Management. The normal refereeing standards will apply. Our intention is to engage in a constructive dialogue with authors so that the final product will reflect the highest standards for research work in the topic of this special issue. The guest editor will be happy to answer any questions from potential authors. Authors can find more information in:

<http://www.jiem.org/index.php/jiem/about/submissions#onlineSubmissions>

**Important Dates**

**Deadline for submission of manuscripts:** 1st May 2009

**Acceptance/rejection notification:** 1st July 2009

**Revised manuscripts due:** 30<sup>th</sup> August 2009

**Publication Special Issue:** September 2009