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Mini-track title: Organizational and Enterprise Modeling and Simulation (EOMAS)

Track: Enterprise Systems

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Description

Modeling & Simulation (M&S) is increasingly becoming a powerful tool in analyzing, designing, and engineering complex systems such as enterprise systems. The main focus of this workshop is on the role, importance, and application of Modeling and Simulation to Information Systems, Enterprise Information Systems, Software Systems, and Business Systems in the context of Organization and Enterprise. The context of organization and enterprise implies that systems are designed to enable certain business processes, and to facilitate interaction of the actors, the system, and the environment. Thus, application of M&S to enterprise systems involves certain degree of social aspects and involvement of human actors too. Traditionally, Modeling & Simulation have been endorsed as instruments to observe dynamic behavior of systems, measure IT impacts on organizations, and outcomes of changes. In the current context of opensource software development, service-oriented architectures (SOA) and business process outsourcing (BPO), M&S assumes even more significance in assessing business process management effectiveness, alignment between business process models and corresponding SOAs, alignment between the client and vendor business strategies in a BPO contract, etc. using embedded simulation in enterprise and organizational models. In addition to extensive research programs, the field of M&S is actively attracting industry and tool developers. For businesses, the practice of M&S is becoming a de facto standard tool to measure, change and improve their business processes on regular basis. This workshop is aimed to become a major outlet and networking opportunity for researchers, practitioners, and educators interested in the theory and application of Modeling & Simulation pertaining to IS, EIS, Organizational Processes, and Business Systems. In addition, there is a growing interest in this field from educational and curriculum perspective with programs at doctoral level (IS and MIS majors). This workshop also welcomes original research results addressing and strengthening the teaching of the Modeling & Simulation discipline pertinent to organization and its business processes.

Suggested Topics

- Information Systems Design, Modeling and Simulation
- Requirements Modeling and Simulation
- Business Processes Modeling and Simulation
- Business Process Modeling and Simulation in MDA (Model-Driven Architecture)
- Business Process Modeling and Simulation in SOA (Service-Oriented Architecture)
- Animation and Visualization of Business Processes
- Organizational Processes Modeling and Simulation
- Methodologies and Frameworks for Business Process Modeling

- Business Process Modeling and Simulation Using Conventional Simulation Languages (Arena™, ProModel™, etc.) and Non-Conventional Methods: DEMO, Language-Action Perspective, Organizational Semiotics
- Business Process Modeling and Simulation Using Petri net
- Business Process Modeling and Simulation Using UML (Unified Modeling Language)
- Business Process Modeling and Simulation Using EPC (Event-driven Process Chain)
- Modeling and Simulation of Business Process Outsourcing Scenarios
- Secure Business Process Modeling and Simulation
- Case Studies