Call For Papers


Special Issue: Modeling & Simulation as a Service (MSaaS) – (J18-3)

The defense community uses simulation environments for various purposes, such as training, capability development, mission rehearsal and decision support in acquisition processes. Consequently, Modelling and Simulation (M&S) has become a critical capability for many nations and organizations. M&S products are highly valuable resources and it is essential that models, simulation environments, data and processes are conveniently accessible to a large number of users as often as possible.

Recent developments in cloud computing technology and service-oriented architectures offer opportunities to better utilize M&S capabilities in order to satisfy these critical needs. M&S as a Service (MSaaS) is a concept that includes service-oriented design and the provision of M&S applications via the as-a-service model of cloud computing to enable more composable simulation environments that can be deployed and executed on-demand. The MSaaS paradigm supports stand-alone use as well as integration of multiple simulated and real systems into a unified cloud-based simulation environment whenever the need arises.

This special issue looks for theoretic foundations as well as practical applications of MSaaS in the defense sector – but also seeks to learn about MSaaS experiences and achievements in other sectors. Reports of existing, fielded applications are encouraged as well as visionary contributions how the future MSaaS environment should look like and how this may be achieved (roadmap, required standardization activities, etc.). Potential contributions can include, but are not limited to:

- MSaaS Architectures and System Design
- Cyber Security in Cloud-Based simulation environments
- Case studies of known MSaaS implementations
- MSaaS Cost-Benefit evaluations
- MSaaS Business Model and impact on stakeholders
- Standards for MSaaS
- Training impacts due to MSaaS
- Integration of legacy software / hardware in new MSaaS environments
- Migration strategies
Papers submitted should not be concurrently under review at another conference, journal, or similar venue.

**Instructions for Manuscript Submission**

For manuscript formatting and other guidelines, please visit the **Author Guidelines for JDMS** page.

**Submissions for Full Paper Review**

Manuscripts should be prepared and submitted online at the **SCS Manuscript Management System**. Please note in your online cover letter that your submission is intended for the **Special Issue: Modeling & Simulation as a Service (MSaaS) (J18-3)**.

**Note:** Manuscripts must not have been previously published or be submitted for publication elsewhere. Each submitted manuscript must include title, names, authors' affiliations, postal and e-mail addresses, an extended paper, and a list of keywords. For multiple author submission, please identify the corresponding author.

**Due Dates**

- Full papers due: 31 March 2019
- Expected date of publication: Winter 2019

**Final Paper Submissions**

Each final submission must be prepared based on the JDMS journal requirements (see the **Author Guidelines for JDMS** page).

**Guest Editor**

Dr. Robert Siegfried