

Call for Contributions

Submission:

1. **Inform the Chair:** with the Title of your Contribution

2. **Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SIMUL+2017+Special>

Please select Track Preference as **MMSDS**

Special track

MMSDS: Multiscale Modeling and Simulation for Defense and Security

Chair and Coordinator

Dr.-Ing. Dipl.-Math. Arash Ramezani, The Helmut Schmidt University, Germany

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along with

SIMUL 2017, The Ninth International Conference on Advances
in System Simulation

October 8 - 12, 2017 - Athens, Greece

<http://www.iaria.org/conferences2017/SIMUL17.html>

Since computers and software have spread into all fields of industry, extensive efforts are currently made in order to improve the safety by applying certain numerical solutions. For many engineering problems involving shock and impact, there is no single ideal numerical method that can reproduce the various regimes of a problem. An approach wherein different techniques may be applied within a single numerical analysis can provide the “best” solution in terms of accuracy and efficiency.

This track deals with multiscale modeling and simulation for defense and security, a field of solving problems which have important features at multiple scales of time and/or space.

Topics include, but not limited to:

- Structures under Crash and Impact
- Shock Wave and Structure Interaction
- Impact and Blast Load Analysis of Structures with FEM and CFD Simulations
- Computer-Aided Engineering for Defense and Security
- Numerical Simulation and Experimental Model-Validation
- Modern Composites for the Protection Against Different Threats
- High-Performance Computing for the Modeling of High-Speed Dynamics
- Concept Design for Enhanced Ballistic Protection Driven by Numerical Simulations
- Investigation of Composite Materials for Military Applications
- Human Kinetic Energy Harvesting Applications

Important Datelines

- Inform the Chair: As soon as you decided to contribute
- Submission: August 31
- Notification: September 7
- Registration: September 14

- Camera ready: September 14

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

Contribution Types

- Regular papers [in the proceedings, digital library]
- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on www.iaia.org]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on www.iaia.org]

Paper Format

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules: <http://www.iaia.org/editorialrules.html>

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

Paper Submission

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Registration

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

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