Call for Contributions

Submission:
1. Inform the Chairs: with the Title of your Contribution
2. Submission URL:
https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=SIMUL+2018+Special
Please select Track Preference as **SBDDS**

Special track

SBDDS: Simulation-Based Development of Defense Systems

Chair and Coordinator

Prof. Dr.-Ing. Dipl.-Math. Arash Ramezani, Helmut-Schmidt-University / University of the Federal Armed Forces - Hamburg, Germany ramezani@hsu-hh.de

along with

SIMUL 2018, The Tenth International Conference on Advances in System Simulation
October 14, 2018 to October 18, 2018 - Nice, France
http://www.iaria.org/conferences2018/SIMUL18.html

Since computers and software have spread into all fields of industry, extensive efforts are currently made in order to improve defense systems 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.

The contributions should relate to any of the following topics, but not limited to:

- Multiscale Modeling and Simulation for Defense and Security
- Structures under Crash and Impact
- Shock Wave and Structure Interaction
- Personal Armor Systems
- Impact and Blast Load Analysis 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
- Impact and Blast Load Prediction with Machine Learning Algorithms
- Concept Design for Enhanced Ballistic Protection
- Investigation of Composite Materials for Military Applications

Important Deadlines

- Inform the Chair (see Contacts below): as soon as you decide to contribute
- Submission: ~~June 28~~ September 5
- Notification: ~~July 28~~ September 20
- Registration: ~~August 11~~ September 30

- Camera ready: ~~August 22~~ September 30

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.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos/Tools: two pages [posted on www.iaria.org]

Paper Format
- See: http://www.iaria.org/format.html
- Before submission, please check and comply with the editorial rules: http://www.iaria.org/editorialrules.html

Publications
- Extended versions of selected papers will be published in IARIA Journals: http://www.iariajournals.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.iaria.org/registration.html

Contacts
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ICSNC logistics: steve@iaria.org