2020 CSER
conference on systems engineering research

18th *Annual* **Conference on Systems Engineering Research (CSER)**
Now Completely Virtual from October 08 to 10, 2020

Recent Trends and Advances in Model-based Systems Engineering

Conference General Co-Chairs, USC

Prof. Azad M. Madni
Systems Architecting and Engineering

Prof. Barry Boehm
Systems and Software Engineering

Technical Program Co-Chairs, USC

Prof. Mahta Moghaddam
Electrical Engineering

Prof. Daniel Erwin
Astronautical Engineering

Ms. Marilee Wheaton
The Aerospace Corp.

Systems engineering is undergoing a transformation motivated by mission and system complexity, and enabled by technological advances such as model-based systems engineering, digital engineering, formal modeling, and the convergence of systems engineering with other disciplines. This conference is focused on exploring recent trends and advances in model-based systems engineering (MBSE) and the synergy of MBSE with simulation technology and digital engineering. Researchers have submitted papers on MBSE methods, modeling approaches, standards, languages, and economics analysis to respond to the challenges posed by 21st century systems.

Keynote Speakers
- **Gen. (Ret.) Ellen M. Pawlikowski,** Judge Widney Professor, University of Southern California
- **Lt. Gen. (Ret.) Larry James,** Deputy Director, Jet Propulsion Lab
- **Mr. Scott Miller,** Executive Chief Engineer, Automated Driving, and Executive Director, AV/EV Integration, GM
- **Prof. Garrett Reisman,** Astronautical Engineering, University of Southern California

Luncheon Keynote
- **Mr. Jon Damush,** Senior Director, New Business Ventures, Boeing NeXt

Tutorials
- **MBSE Overview (**Dr. Michael Sievers, University of Southern California**)**
- **Parallel Agile (**Mr. Doug Rosenberg, University of Southern California**)**
- **Preparing MBSE for Industry 4.0 & IOT (**Dr. Dov Dori, Technion - Israel Institute of Technology**)**
- **Data Analytics (**Dr. Courtney Paulsen, Southern Utah University**)**
- **Enterprise Modeling using UAF (**Mr. Barry Papke, 3DS**)**

For More Details Please Visit: cser2020.org

Conference Co-Managers

Mr. Terry Rector
The Aerospace Corp.

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