

SPRINGSIM'20

2020 Spring Simulation Conference

AIMS AND SCOPE

The 2020 Spring Simulation Conference will feature the **2020 High Performance Computing (HPC) Track**, devoted to the impact of large-scale and distributed computing and communications on simulations. Advances in novel and heterogeneous architectures, high-end computers, large data stores are ushering in a new era of high performance parallel and distributed simulations. Along with these new capabilities come new challenges in computing and system modeling. The goal of HPC 2019 is to encourage innovation in high performance computing and communication technologies and to promote synergistic advances in modeling methodologies and simulation. It will promote the exchange of ideas and information between universities, industry, supercomputing centers, and national laboratories about new developments in system modeling, high performance computing and communication, scientific computing as well as simulation. Topics of interest include, but are not limited to:

- High performance computing for Big Data analytics
- GPU, accelerator and co-processor computing; multicore and many-core computing;
- Exascale challenges
- Power and energy-aware computing
- Cloud, distributed, and grid computing
- High performance numerical methods and programming
- High performance system modeling and simulation
- Large-scale visualization and data management
- Tools and environments for coupling parallel codes
- Reproducibility of application performance results