

MSM 2019

2019 Modeling and Simulation in Medicine Symposium

APRIL 29 – May 2, 2019

University of Arizona, Tucson, Arizona

General Chair: Jerzy Rozenblit, The University of Arizona, jr@ece.arizona.edu

General Co-Chair: Johannes Sametinger, Johannes Kepler University Linz, johannes.sametinger@jku.at

AIMS AND SCOPE

The past decade has brought about a dramatic increase in the deployment of simulation-based techniques in medicine and its related healthcare fields. We use simulation scenarios extensively for training of medical personnel, students, first responders, and emergency response coordinators. Rapid advances in computer technologies, biomedical and systems engineering, drive the development of cyber physical systems that serve as simulation based training platforms. Such integrated engineering techniques are also the basis for design and development of new embedded medical devices whose reliability and cybersecurity is paramount for the well-being of patients. In addition, very complex models “digitally” plan pharmaceutical studies, assess potential treatment modalities, and carry out analytics on big health related data sets. It is clear that we need to strengthen methodological and theoretical foundations in order to provide integrated, connected, and crosscutting solutions for modeling and simulation in healthcare. This meeting is an attempt to unify themes for such solutions and to “connect” researchers, developers, and medical practitioners.

TOPICS

We welcome papers describing design principles as well as applications pertinent (but not limited) to the following topics:

- Modeling and simulation in medicine: fundamental research
- Training and education
- Care delivery, outcomes, and patient’s safety
- Robotics and its applications in training and “in vivo”
- Life-critical systems
- Cyber-security of medical IT systems and embedded devices
- Systems integration: “connected health”

CALL FOR PAPERS



SUBMISSION GUIDELINES

Original, high-quality technical papers are solicited for review, possible presentation and subsequent publication in the conference proceedings. Papers are max 12 pages long with single column format (see author's kit at <http://scs.org/authorskit>). Papers must not have appeared before (or be pending) in a journal or conference with published proceedings, nor may they be under review or submitted to another forum during SpringSim'19 review process.

All submissions will be peer reviewed and feedback will be provided. Authors of papers accepted at symposiums and their tracks are expected to attend the conference, present their work to their peers, transfer copyright, and pay a conference registration fee at the time their camera-ready paper is submitted. *Papers registered and presented will be included in the conference proceedings, archived in the ACM Digital Library, and indexed in DBLP and SCOPUS.*

Short papers (max 6 pages, with same format of regular papers), describing early research efforts, work in progress or position statements, are also welcome. Short papers will be included in the conference proceedings.

Please refer to the SpringSim'19 website (<http://www.scs.org/springsim>) for full details about the submission procedure. When submitting your contribution, please make sure to use the paper template available at <http://scs.org/authorskit>.

IMPORTANT DATES

Paper Submission: December 16, 2018

Notification of Acceptance: February 8, 2019

Short Paper Submission: February 15, 2019

Camera-ready Paper Submission: February 22, 2019

CONTACT

General Chair

Jerzy Rozenblit
jr@ece.arizona.edu

General Co-Chair

Johannes Sametinger
johannes.sametinger@jku.at

SpringSim'19 website: www.scs.org/springsim

For questions, please contact the SCS Office at scs@scs.org | (858)277-3888