



# 6<sup>th</sup> OMNeT++ Community Summit 2019

Hamburg University of Technology, Germany – September 4-6, 2019

## CALL FOR CONTRIBUTIONS

<http://summit.omnetpp.org/2019>

OMNeT++ is a public-source, component-based, modular and open-architecture simulation environment with strong GUI support and an embeddable simulation kernel. It is designed to simulate diverse discrete event-based systems.

The **OMNeT++ Community Summit** is an open meeting with time and space for tutorials, discussions, coding sessions as well as presentations on recent developments and novel ideas in the broad area of modeling and simulation, with a focus on the OMNeT++ simulation framework. The OMNeT++ Summit unites users, developers, and researchers to discuss applications, developments, and ideas on the topics of integrating simulation models, coupling different simulation tools and providing more accurate and more efficient modeling approaches and simulation models.

To facilitate the interaction among participant, we introduce this year a novel presentation format called **ConversTation**. It is a highly interactive concept, which provides much more feedback and useful discussion time than traditional talks. More information will be provided to presenters and audience at a due time.

Following the success of 2018's edition, the 2019 Community Summit will include a **hackathon** event. This provides the chance for developers of simulation models and frameworks to consult OMNeT++ core developers and fellow developers, to improve the quality and interoperability of models and frameworks.

The 2019 Summit also includes the possibility to submit scientific contributions which will be reviewed by the TPC and (if accepted and presented at the summit) be published in the **indexed open access journal EPiC Series in Computing** (ISSN: 2398-7340) (*pending agreement*). The copyright for all submission types is retained by the authors.

Topics of interest include, but are not limited to:

- Design, evaluation, validation of simulation models
- Simulation credibility and validation
- Modeling techniques, including stochastic and hybrid modeling
- Comparison/integration with other simulation/emulation tools
- Parallel simulation and simulation control
- Integration of hardware-specific code
- Simulative approaches to performance evaluation
- Cross-layer protocol or system design methodologies
- Use of discrete event simulation in other domains
- Result interpretation and analysis
- Simulation in the loop
- Industrial applications and practical use cases

### SUBMISSION AND PARTICIPATION

We invite researchers and users alike to submit one or more of the following contribution types:

- Scientific contributions (up to 8 pages)** are full research papers that describe ongoing work or finalized results. Full papers that are reviewed and accepted by the TPC and presented at the summit will appear in the summit proceedings that are published in the indexed open access journal [EPiC Series in Computing](http://www.epicseries.com) (*pending agreement*). The submission copyright is retained by the authors.
- Short abstracts (up to 3 pages)** provide overviews of a proposed presentation or demonstration. Authors may find this format suitable for design proposals, for preliminary or more narrowly focused work, for case studies, or to highlight OMNeT++-related results in work that has been published elsewhere. Short abstracts will be invited as either a presentation, as a demonstration, or a poster and will be published on the summit website. The copyright for submissions is retained by the authors.
- Proposals for tutorials, demonstrations, coding sessions, discussion panels**, and other **interactive community activities** can be submitted [via e-mail to the organizers \(omnetsummit2019@easychair.org\)](mailto:omnetsummit2019@easychair.org).

All submissions should be of interest to the OMNeT++ community. We welcome case studies that employ OMNeT++ in the evaluation of systems as well as contributions addressing general questions of OMNeT++-based simulations. For model-centric submissions, we ask the author(s) to publicize source code at the time of submission.

All submissions will be checked by the organizers and scientific submissions will be reviewed by the technical program committee. Proposals for individual contributions will be invited depending on the submission type and based on the expected interest for the OMNeT++ community. We provide poster slots for all interested participants.

Contributions should be prepared with the EasyChair EPiC Series template. Detailed instructions are available on the summit website: <http://summit.omnetpp.org/2019/>

The 2019 Community Summit is sponsored and free to attend by everyone. Registration or publication fees will not be applied.

### DATES and DEADLINES

<b>Submission Deadline:</b>	July 1, 2019	<b>Camera-Ready:</b>	August 16, 2019
<b>Author Notification:</b>	August 2, 2019	<b>Hackathon + Summit:</b>	September 4-6, 2019

### ORGANIZERS

#### Local Summit Organizers

Koojana Kuladinithi, Zeynep Vatandas and Andreas Timm-Giel  
(Hamburg University of Technology)

#### Hackathon Organizers

Asanga Udugama, Sebastian Lindner and Vladimir Vesely  
(University of Bremen, Hamburg University of Technology, Brno University)

#### Technical Program Organizers

Anna Förster, Antonio Virdis  
(University of Bremen, University of Pisa)

#### Publicity Organizers

Kyeong Soo (Joseph) Kim, Minette Zongo Meyo, Florian Meyer  
(Xi'an Jiaotong-Liverpool University, University of Ngoaundere, Hamburg University of Technology)