



5th OMNeT++ Community Summit 2018

University of Pisa, Italy – September 05-07, 2018

CALL FOR CONTRIBUTIONS

<http://summit.omnetpp.org/2018>

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.

The 2018 edition of the Community Summit will include a **hackathon** for the first time in the history of OMNeT++-related events. The hackathon gives developers of simulation models and frameworks the opportunity to propose hackathon working topics and projects and to consult and team-up with the OMNeT++ core developer team at the hackathon.

The 2018 Summit also reintroduces 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). The copyright for all submission types is retained by the authors.

Topics of interest for scientific contributions 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](#). The submission copyright is retained by the authors.
- Short abstracts (up to 2 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 and included in the [Zenodo digital repository of the OMNeT++ Community Summit](#). The copyright for submissions is retained by the authors.
- Proposals for hackathon projects** can be submitted [via e-mail to the organizers](#). Exemplary topics are listed [on the website](#).
- Proposals for tutorials, demonstrations, coding sessions, discussion panels**, and other **interactive community summit activities** can be submitted [via e-mail to the organizers](#).

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 (e.g., on Github) 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 proceedings template (use the letter format and the [EPiC] mode for LaTeX). Detailed instructions are available on the summit website: <http://summit.omnetpp.org/2018/>

The 2018 Community Summit is sponsored and free to attend by everyone. Registration or publication fees will not be applied.

DATES and DEADLINES

Scientific Submissions:	July 16, 2018	Camera-Ready:	August 24, 2018
Author Notification:	August 10, 2018	Hackathon + Summit:	September 05-07, 2018

ORGANIZERS

Local Summit Organizers

Antonio Viridis & Giovanni Nardini
(University of Pisa)

Hackathon Organizers

Vladimír Veselý & Carlo Vallati
(Brno University of Technology, University of Pisa)

Technical Program Organizers

Anna Förster & Asanga Udugama
(University of Bremen)

Publicity Organizers

Kyeong Soo Kim & Michael Kirsche
(Xi'an Jiaotong-Liverpool University, BTU Cottbus-Senftenberg)