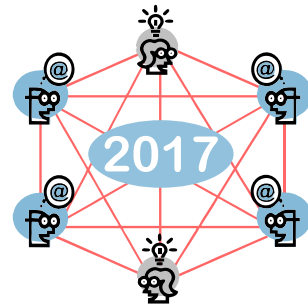


Welcome to the 2017 OMNeT++ Community Summit

September 7-8

University of Bremen – Germany



About the Summit



- Main objectives:
 - Facilitate interaction and sharing of experiences, models, and results among the OMNeT++ user and developer community
 - Facilitate interaction between OMNeT++ user community and the development team
- Fourth edition of the summit (following Hamburg 2014, Zurich 2015, and Brno 2016)
- Six prior editions of the Int'l OMNeT++ Workshop (in conjunction with SIMUtools)
- Retained the two-day format!
- Densely-packed program including invited talks, tutorials, regular presentations, demonstrations, Q&A session, and hopefully a lot of interaction!
- “*Best Contribution Award*” (details afterwards)

Summit Organizers (1)

- Founding Chair
 - András Varga (OpenSim Kft.)
- Community Summit Organizers
 - Anna Förster (University of Bremen, Germany)
 - Asanga Udugama (University of Bremen, Germany)
 - Andreas Könsgen (University of Bremen, Germany)
- Technical Program Organizers
 - Antonio Virdis (University of Pisa, Italy)
 - Michael Kirsche (BTU Cottbus–Senftenberg, Germany)
- Publicity Organizer
 - Kyeong Soo (Joseph) Kim (Xi'an Jiaotong–Liverpool University, China)
 - Vladimír Veselý (Brno University of Technology, Czech Republic)



Summit Organizers (2)

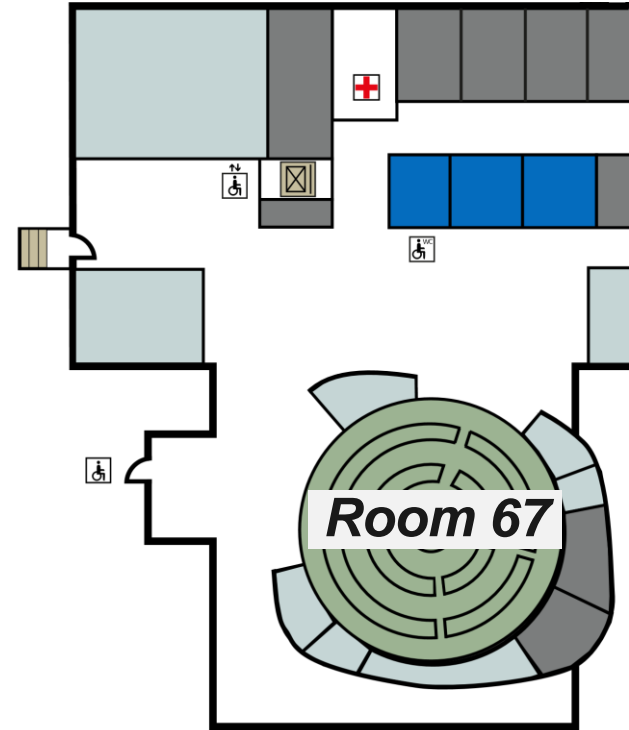


- Technical Program Committee

- Claudia Campolo (University of Reggio Calabria, Italy)
- Laura Marie Feeney (Uppsala University, Sweden)
- Michael Frey (HU Berlin, Germany)
- Florian Kauer (TU Hamburg-Harburg, Germany)
- Marcel Marek (University of Oslo, Norway)
- Yutaka Matsubara (Nagoya University, Japan)
- Cyriel Minkenbergh (Rockley Photonics Inc., USA)
- Thi Mai Trang Nguyen (UUPMC - LIP6, France)
- Christoph Sommer (University of Paderborn, Germany)
- Mirko Stoffers (RWTH Aachen University, Germany)
- Marco Tiloca (RISE SICS, Sweden)

Local Logistics

- Event takes place in Building "Cartesium (CART)"
 - Room 067 - Ground Floor
- Registration, coffee breaks and Friday lunch will be held / served right in front of Room 067
- Dinner: details on next slide
- WiFi access option 1:
 - SSID: Uni-Bremen
- WiFi access option 2:
 - SSID: Uni-Bremen
 - Credentials per user, take a look at your WiFi pamphlet



Social Event + Community Dinner



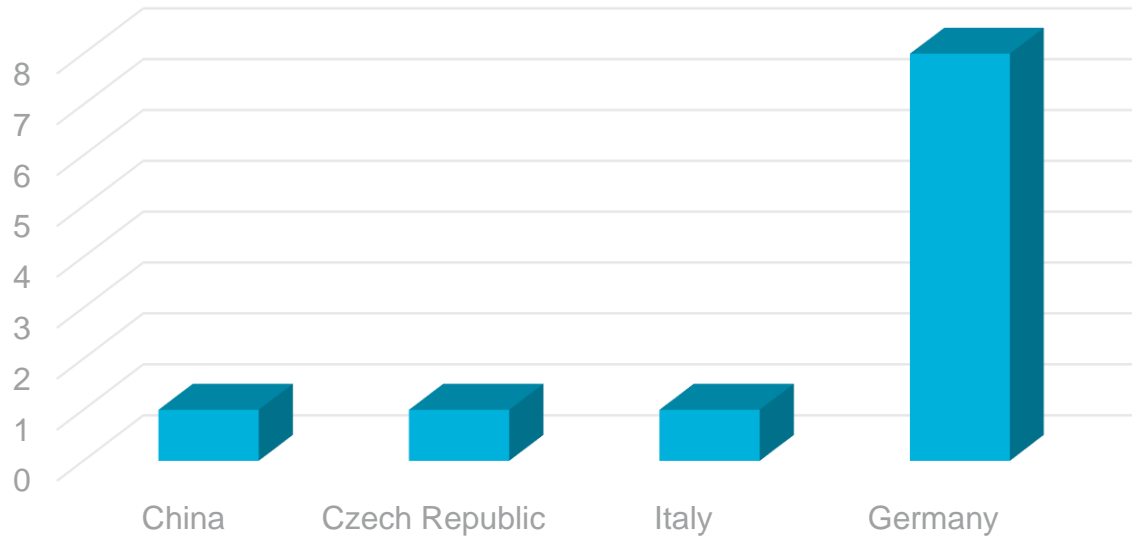
- Social Event @ **Bremer Ratskeller**,
– Am Markt, 28195 Bremen
- Community Dinner @ **StadtWIRT Restaurant**,
– Katharinenklosterhof 7, 28195 Bremen
- Self-paid



Contribution Statistics



- 11 submissions from 4 countries
- 2 tutorials
- 2 invited talks + 1 keynote



Keynote on Friday, 8th September 2017



- Reintroduced the keynote from the 2015 Summit in Zurich
- Topic: *The MASCOT Lander Onboard the Hayabusa2 Mission – Its Communication and Operations Strategy –*
- Speaker: *Dr. Tra-Mi Ho*
(System Engineering and Project Office, German Aerospace Center)

(Big thank you to Anna Förster for organizing the keynote)

Submission Review Process



- TPC with 11 members + organizers reviewed submissions to evaluate:
 - Novelty
 - Community value / interest
 - Technical content

- At least three (often four) reviews per submission
 - Valuable feedback for the authors for future publications / revisions
 - Conflicts and improvement possibilities addressed by reviewers
 - Presentation type advised
 - Shepherding (if deemed helpful)

Best Contribution Selection



- Committee of selected attendees reviews each presentation (except invited ones)
→ *Committee members do not partake in the competition*
- Committee awards points to each presentation
- TPC reviewer scores of submissions are included in the selection / voting
- Best contribution is announced during the *Summit Closure Note*

Program (1)



- TPC selected:
 - 4 long presentations
 - 2 long presentations with demonstrations
 - 3 short presentations
 - 2 short presentations with demonstrations

- Proceedings are available at the [Summit website](#)
 1. Single PDF with all contributions collected
 2. Individual contributions linked [in the program](#)

- All *presented* contributions are published and indexed on [arXiv.org](#)
 - Contact your TPC chairs in case of issues

Program (2)



- Invited presentations and tutorials:
 - By OMNeT++ / OMNEST developers
(thanks to András Varga, Rudolf Hornig, and Levente Mészáros)
 - On reproducibility and simulation campaigns
(thanks to Kyeong Soo (Joseph) Kim and Attila Török)
- Poster and Demo Session
 - During the Friday „lunch“
- Interactive Question & Answer Session with the OMNeT++ Core Development Team
 - Suggestions for discussion topics are welcome before and during the session

Program (3)



- **NOTE:** We have a very full program:

PLEASE STICK TO YOUR ALLOCATED TIME SLOTS

- Leave time for questions (recall the “interaction” objective)

- For presenters:

- Session chairs are indicated on the program

Please contact your session chair in the break before your session

- If possible, upload your presentation to the presentation laptop

- Otherwise, please TEST your setup in the coffee break beforehand!

- Copy your presentation (preferably as PDF) on the organizer’s USB stick

Thursday, Sep. 07th AM

Session	Time	Speaker / Title
Opening	10:00 – 10:15	Registration
	10:15 – 10:30	Welcome Note: <i>Antonio Viridis, Michael Kirsche</i>
Session: Vehicular Network Simulation Session Chair: <i>Michael Kirsche</i>	10:30 – 11:00	<i>Benjamin Sliwa, Johannes Pillmann, Fabian Eckermann and Christian Wietfeld</i> LIMoSim: A Lightweight and Integrated Approach for Simulating Vehicular Mobility with OMNeT++
	11:00 – 11:30	<i>Christina Obermaier and Christian Facchi</i> Observations on OMNeT++ Real-Time Behaviour
	11:30 – 12:00	<i>Giovanni Nardini, Antonio Viridis and Giovanni Stea</i> Simulating Cellular Communications in Vehicular Networks: Making SimuLTE Interoperable with Veins
Lunch Break	12:00 – 13:15	
Session: New Models and Simulators Session Chair: <i>Kyeong Soo (Joseph) Kim</i>	13:15 – 13:35	<i>Behruz Khalilov, Anna Foerster and Asanga Udugama</i> Radio Irregularity Model in OMNeT++
	13:40 – 14:00	<i>Vladimir Vesely and Tomáš Rajca</i> Discovering Neighbor Devices in Computer Network: Development of CDP and LLDP Simulation Modules for OMNeT++
	14:00 – 14:30	<i>Asanga Udugama, Anna Foerster, Jens Dede, Vishnupriya Kuppusamy, Anas Bin Muslim</i> Opportunistic Networking Protocol Simulator for OMNeT++

Thursday, Sep. 07th PM

Session	Time	Speaker / Title
Tutorial: Reproducibility	14:30 – 15:00	<i>Kyeong Soo (Joseph) Kim</i> Reproducible Research for OMNeT++ Based on Python and Pweave
Coffee Break	15:00 – 15:30	
Tutorial: Simulation Campaigns	15:30 – 16:00	<i>Attila Török</i> Running Simulation Campaigns on a Docker Swarm
Session: Mobility Modeling Session Chair: <i>Antonio Virdis</i>	16:00 – 16:30	<i>Anna Förster, Anas Bin Muslim and Asanga Udugama</i> Reactive User Behavior and Mobility Models
	16:30 – 16:50	<i>Manikandan Venkateswaran, Zeynep Vatandas, Koojana Kuladinithi, Andreas Timm-Giel</i> Parameterization of SWIM Mobility Model Using Contact Traces
	16:55 – 17:15	<i>Liu Sang, Vishnupriya Kuppusamy, Anna Förster, Asanga Udugama and Ju Liu</i> Evaluating the Utility of UDG Using OMNeT++
<i>Social Event + Community Dinner</i>	17:15 – open end	

Friday, Sep. 08th AM

Session	Time	Speaker / Title
Keynote	09:00 – 09:45	<i>Dr. Tra-Mi Ho (German Aerospace Center - Institute of Space Systems)</i> The MASCOT Lander Onboard the Hayabusa2 Mission Its Communication and Operations Strategy
Coffee Break	09:45 – 10:15	
Session: OMNeT++ Developments Session Chair: <i>Michael Kirsche</i>	10:15 – 10:45	<i>Maximilian Köstler and Florian Kauer</i> A Remote Interface for Live Interaction with OMNeT++ Simulations
	10:45 – 11:05	<i>Henning Puttnies, Peter Danielis, Christian Koch and Dirk Timmermann</i> Java Extensions for OMNeT++
	11:05 – 11:45	<i>Invited Speaker: András Varga</i> OMNeT++ Best Practices Reloaded
Lunch Break	11:45 – 13:15	Poster and Demo Session
Session: INET Developments	13:15 – 13:45	<i>Invited Speaker: Levente Meszaros</i> INET 4 - Features and Porting
Q&A Session	13:45 – 14:15	<i>Interactive Question & Answer Session with the OMNeT++ Core Development Team</i>
Closing	14:15 – 14:30	Summit Closure Note + “Best Contribution Award”

Best wishes
from the organizers
for an interesting and successful
OMNeT++ Community Summit 2017