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 Minkenberg (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:

- 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


- 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
▪ 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
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Speaker / Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening</td>
<td>10:00 – 10:15</td>
<td>Registration</td>
</tr>
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<td>10:15 – 10:30</td>
<td><strong>Welcome Note:</strong> Antonio Virdis, Michael Kirsche</td>
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<td><strong>Session: Vehicular Network Simulation</strong></td>
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<td><strong>Session Chair:</strong> Michael Kirsche</td>
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<td>10:30 – 11:00</td>
<td>Benjamin Sliwa, Johannes Pillmann, Fabian Eckermann and Christian Wietfeld LIMoSim: A Lightweight and Integrated Approach for Simulating Vehicular Mobility with OMNeT++</td>
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<td>11:00 – 11:30</td>
<td>Christina Obermaier and Christian Facchi Observations on OMNeT++ Real-Time Behaviour</td>
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<td>11:30 – 12:00</td>
<td>Giovanni Nardini, Antonio Virdis and Giovanni Stea Simulating Cellular Communications in Vehicular Networks: Making SimuLTE Interoperable with Veins</td>
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<td>Lunch Break</td>
<td>12:00 – 13:15</td>
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<td><strong>Session: New Models and Simulators</strong></td>
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<td><strong>Session Chair:</strong> Kyeong Soo (Joseph) Kim</td>
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<td>13:40 – 14:00</td>
<td>Vladimir Vesely and Tomáš Rajca Discovering Neighbor Devices in Computer Network: Development of CDP and LLDP Simulation Modules for OMNeT++</td>
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<td>14:00 – 14:30</td>
<td>Asanga Udugama, Anna Foerster, Jens Dede, Vishnupriya Kuppusamy, Anas Bin Muslim Opportunistic Networking Protocol Simulator for OMNeT++</td>
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| **Tutorial:** Reproducibility    | 14:30 – 15:00 | *Kyeong Soo (Joseph) Kim*  
Reproducible Research for OMNeT++ Based on Python and Pweave |
| Coffee Break                     | 15:00 – 15:30 |                                                                                 |
| **Tutorial:** Simulation Campaigns| 15:30 – 16:00 | *Attila Török*  
Running Simulation Campaigns on a Docker Swarm |
| **Session:** Mobility Modeling   | 16:00 – 16:30 | *Anna Förster, Anas Bin Muslim and Asanga Udugama*  
Reactive User Behavior and Mobility Models |
| **Session Chair:** Antonio Virdis| 16:30 – 16:50 | *Manikandan Venkateswaran, Zeynep Vatandas, Koojana Kuladinithi, Andreas Timm-Giel*  
Parameterization of SWIM Mobility Model Using Contact Traces |
|                                  | 16:55 – 17:15 | *Liu Sang, Vishnupriya Kuppusamy, Anna Förster, Asanga Udugama and Ju Liu*  
Evaluating the Utility of UDG Using OMNeT++ |
<p>| <strong>Social Event + Community Dinner</strong> | 17:15 – open end |                                                                                 |</p>
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<thead>
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</tr>
</thead>
</table>
| **Keynote**                   | 09:00 – 09:45 | *Dr. Tra-Mi Ho* (German Aerospace Center - Institute of Space Systems)  
The MASCOT Lander Onboard the Hayabusa2 Mission  
Its Communication and Operations Strategy |
| **Coffee Break**              | 09:45 – 10:15 |                                                                                                                                               |
| **Session: OMNeT++ Developments** | 10:15 – 10:45 | *Maximilian Köstler* and *Florian Kauer*  
A Remote Interface for Live Interaction with OMNeT++ Simulations |
| **Session Chair:**            |               | *Henning Puttnies, Peter Danielis, Christian Koch* and *Dirk Timmermann*  
Java Extensions for OMNeT++                                         |
|                               |               | *Invited Speaker: András Varga*  
OMNeT++ Best Practices Reloaded                                        |
| **Lunch Break**               | 11:45 – 13:15 | Poster and Demo Session                                                                                                                        |
| **Session: INET Developments** | 13:15 – 13:45 | *Invited Speaker: Levente Meszaros*  
INET 4 - Features and Porting                                           |
| **Q&A Session**               | 13:45 – 14:15 | *Interactive Question & Answer Session with the OMNeT++ Core Development Team*                                                                |
| **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