



OMNeT++ Community Summit 2015

Successor of the International Workshop on OMNeT++

IBM Research – Zurich, Switzerland
– Sep. 3-4, 2015 –

PROGRAM OVERVIEW: Thursday September 3rd

| Session | Time | Speaker / Title | Location |
|----------------|---------------|---|-----------|
| Opening | 08:30 - 09:00 | Registration | Reception |
| | 09:00 - 09:10 | Welcome Note: <i>Cyriel Minkenberg, Michael Kirsche</i> | C201/C202 |
| Keynote #1 | 09:15 - 10:00 | <i>Christopher D. Carothers</i> "Enabling Scalable Parallel Processing of Venus/OMNeT++ Network Models on the IBM Blue Gene/Q Supercomputer" | C201/C202 |
| Break | 10:00 - 10:20 | | Corridor |
| Beyond OMNeT++ | 10:20 - 10:45 | <i>Georg Möstl and Andreas Springer</i> "MiXiM, PAWiS, and STEAM-Sim Integration – Combining Channel Models, Energy Awareness, and Real-life Application Code" | C201/C202 |
| | 10:45 - 11:10 | <i>Jens Dede, Koojana Kuladinithi et al.</i> "OMNeT++ and Mosaik: Enabling Simulation of Smart Grid Communications" | |
| | 11:10 - 11:35 | <i>Asanga Udugama, Koojana Kuladinithi, Anna Förster and Carmelita Görg</i> "Federating OMNeT++ Simulations with Testbed Environments We are in the process of developing a system architecture" | |
| | 11:35 - 12:00 | <i>Ryan D. L. Engle, Douglas D. Hodson et al.</i> "Modeling Quantum Optical Components, Pulses and Fiber Channels Using OMNeT++" | |
| Lunch | 12:00 - 13:00 | | Cafeteria |

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|-------------------|---------------|---|-----------|
| INET Enhancements | 13:00 - 13:25 | <i>Irene Rüngeler and Michael Tüxen</i> "Integration of the Packetdrill Testing Tool in INET" | C201/C202 |
| | 13:25 - 13:40 | <i>Michael Kirsche and Roman Kremmer</i> "uLP Support for the Network Simulation Cradle" | |
| | 13:40 - 13:55 | <i>Atheer Al-Rubaye and Jochen Seitz</i> "Dynamic Index NAT as a Mobility Solution in OMNeT++" | |
| | 13:55 - 14:10 | <i>Artur Austregesilo Scussel, Georg Panholzer et al.</i> "Improvements in OMNeT++/INET Real-Time Scheduler for Emulation Mode" | |
| Panel | 14:20 - 15:00 | <i>Laura Marie Feeney</i> "Simulating Power Consumption in OMNeT++" | C201/C202 |
| | | <i>Torsten Braun, Philipp Hurni, Vitor Bernardo and Marília Curado</i> "Issues with State-based Energy Consumption Modelling" | |
| | | <i>Mohammadhassan Safavi and Saeed Bastani</i> "A Simulation Package for Energy Consumption of Content Delivery Networks (CDNs)" | |

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|------------------------------------|---------------|--|-----------|
| Break + Demos and Posters | 15:00 - 16:15 | <i>Jean Lebreton and Nour Murad</i> "Implementation of a Wake-up Radio Cross-Layer Protocol in OMNeT++ / MiXiM" | C201/C202 |
| | | <i>Sebastian Böhm and Michael Kirsche</i> "Looking into Hardware-in-the-Loop Coupling of OMNeT++ & RoSeNet" | |
| | | <i>Qian Liu, Robert D. Russell et al.</i> "Implementation of PFC and RCM for RoCEv2 Simulation in OMNeT++" | |
| Future of OMNeT++ | 16:15 - 17:30 | <i>Raphael Riebl and Christian Facchi</i> "Regain Control of Growing Dependencies in OMNeT++ Simulations" | C201/C202 |
| | | Invited Speaker: <i>Andras Varga</i> "Towards OMNeT++ 5" | |
| | | Panel Discussion: "The Future of OMNeT++" | |
| Break | 17:30 - 17:45 | | Corridor |
| Tutorial #1 | 17:45 - 18:45 | <i>Antonio Virdis</i> "Optimization in the Loop: Implementing and Testing Scheduling Algorithms with SimuLTE" | C201/C202 |
| Dinner | 19:00 – open | | Moosegg |

PROGRAM OVERVIEW: Friday September 4th

| Session | Time | Speaker / Title | Location |
|----------------|---------------|--|-----------|
| | 08:45 - 09:00 | Registration | Reception |
| Future of INET | 09:00 - 09:30 | Invited Speaker: <i>Rudolf Hornig</i> "Wireless Tutorial on INET 3.0" | C201/C202 |
| | 09:30 - 10:00 | Invited Speaker: <i>Levente Meszaros</i> "Beyond INET 3.0" | |
| | 10:00 - 10:45 | Panel Discussion: "Future of INET" | |
| Break | 10:45 - 11:15 | | Corridor |
| Keynote #2 | 11:15 - 12:00 | <i>Peter Altevogt</i> "Cloud Performance Simulations" | C201/C202 |
| Lunch | 12:00 - 13:00 | | Cafeteria |

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|-----------------------------|---------------|---|-----------|
| New Protocols and Models | 13:00 - 13:25 | <i>Andreas Rain, Daniel Kaiser and Marcel Waldvogel</i> "Realistic, Extensible DNS and mDNS Models for INET/OMNeT++" | C201/C202 |
| | 13:25 - 13:50 | <i>Felix Weinrank, Michael Tüxen and Erwin P. Rathgeb</i> "Integration of RTMFP in the OMNeT++ Simulation Environment" | |
| | 13:50 - 14:05 | <i>Martin Levesque and David Tipper</i> "ptp++: A Precision Time Protocol Simulation Model for OMNeT++/INET" | |
| | 14:05 - 14:20 | <i>Jeffery Weston and Eric Koski</i> "High Frequency Radio Network Simulation Using OMNeT++" | |
| | 14:20 - 14:35 | <i>Vladimir Vesely, Marcel Marek, Tomas Hykel and Ondrej Rysavy</i> "Skip This Paper - RINASim: Your Recursive InterNetwork Architecture Simulator" | |
| Break | 14:35 - 14:45 | | Corridor |
| Tutorial #2 | 14:45 - 15:25 | <i>Zhongliang Zhao, Denis Rosario, Torsten Braun and Eduardo Cerqueira</i> "A Tutorial of the Mobile Multimedia Wireless Sensor Network OMNeT++ Framework" | C201/C202 |
| Closing | 15:25 - 15:30 | Summit Closure Note | C201/C202 |