SUMO2013 Program

Wed, May 15

09:30-10:45 Welcome Speech
>> Introduction and greetings
>> Summary on Publications citing SUMO, 2002-2012, Daniel Krajzewicz

10:45-11:00 Coffee Break

11:00-12:30 Large Scale Simulations

12:30-14:30 Lunch

14:30-16:30 Validation

16:45 Social Event
>> Guided tour of the historical sites of aviation and dinner in Adlershof

Thu, May 16

09:30-10:30 Inductive Charging

10:30-10:45 Coffee Break

10:45-12:45 Extensions and Middleware

12:45–14:30 Lunch

14:30–16:00 Kai Nagel
>> Topic: "Some thoughts about extensibility, pluggability, and maintainability of
>> (traffic) simulations"

16:00–16:15 Coffee Break

16:15–18:00 Panel Discussion
>> Topic: „Extensions, Collaboration, Community Building"

19:00 Barbecue

Fri, May 17

09:00-10:30 Christoph Sommer
>> Topic: "The Future of Vehicular Network Simulation"

10:30–10:45 Coffee Break

10:45–12:15 V2X

12:15–13:15 Models

13:15–13:30 Closing Session

13:30 Lunch

Large Scale Simulations   Wed, May 15,11:00-12:30
Preparing Data for Urban Traffic Simulation using SUMO
Jose Capela Dias, Pedro Henriques Abreu, Daniel Castro Silva, Gustavo Fernades, Penousal Machado and António Leitão

A Use Case for SUMO: Simulating Traffic around the Port of Duisburg
Gerhard Hermanns, Thomas Zaksek and Michael Schreckenberg

Real-Time Traffic Conditions with SUMO for ITS Austria West
Karl-Heinz Kastner, Robert Keber, Petru Pau and Martin Samal

Validation   Wed, May 15,14:30-16:30
Benchmarking SUMO Generated Traffic Simulation Results Based on GEH Statistic
Carsten Dalaff, Rüdiger Ebendt, Jakob Erdmann, Gaby Gurczik and Louis Calvin Touko Tcheumadjeu

Real-time simulations based on live detector data – Experiences of using Sumo in a Traffic Management System
Mario Krumnow, Andreas Kretschmer

Predicting Travel Time of a Vehicle in Occluded Area with SUMO
Wei Li, Dominik Rosenbaum, Claudia Sánta and Matthew Fullerton

3D visualization for microscopic traffic data sources
Andreas Wenger, Matthew Fullerton, Mathias Baur,Silja Hoffmann, Jonas Lüßmann

Inductive Charging   Thu, May 16, 09:30-10:30
Implementation of an Energy Model and a Charging Infrastructure in SUMO
Tamás Kurczveil and Eckehard Schnieder

A Framework for Electric Bus Powertrain Simulation in Urban Mobility Settings: coupling SUMO with a Matlab/Simulink nanoscopic model
José Macedo, Guilherme Soares, Zafeiris Kokkinogenis, Deborah Perrotta and Rosaldo J.F. Rossetti

Drivers Attitude and its Influence on the Energy Waste of Electric Buses
Deborah Perrotta, José Luiz Macedo, Rosaldo J. F. Rossetti, João Luiz Afonso, Zafeiris Kokkinogenis and Bernardo Ribeiro

Extensions and Middleware   Thu, May 16, 10:45-12:45
Sumo as a Service – Building up a Web service to interact with Sumo
Mario Krumnow

SUMOPy: an advanced simulation suite for SUMO
Joerg Schweizer

An Integrated Framework for Multi-Agent Traffic Simulation using SUMO and JADE
Guilherme Soares, Jose Macedo, Zafeiris Kokkinogenis and Rosaldo J. F. Rossetti

dSUMO: Towards a Distributed SUMO
Liam Murphy, Anthony Ventresque and Quentin Bragard

V2X   Fri, May 17, 10:45–12:15
Microscopic traffic simulation for evaluation of a cooperative variable speed limit system
Ellen Grumert and Andreas Tapani

Robust and Hybrid Location Management for Urban Vehicular Environments
Aisling O' Driscoll and Dirk Pesch

Making Traffic Visualisation Movies by Scripting a Graphical User Interface
Daniel Krajzewicz

Models   Fri, May 17, 12:15–13:15
Basic driving dynamics of cyclists
Erik Andresen, Mohcine Chraibi, Armin Seyfried and Felix Huber

Extending SUMO to supporting tailored driving styles
Joel Gonçalves and Rosaldo J.F. Rossetti

ROAD INTERSECTION MODEL IN SUMO
Daniel Krajzewicz and Jakob Erdmann