



# 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

## Sessions

### Large Scale Simulations

**Wed, May 15, 11:00-12:30**

Urban Traffic Simulation using SUMO

Jose Capela Dias, [Pedro Henriques Abreu](#), Daniel Castro Silva, Gustavo Fernandes and Penousal Machado

A Use Case for SUMO: Simulating Traffic around the port of Duisburg

[Gerhard Hermanns](#), Thomas Zaksek and Michael Schreckenberger

Real-Time Traffic Condition and Prognosis ITS Austria West

[Robert Keber](#) and Karl-Heinz Kastner

### Validation

**Wed, May 15, 14:30-16:30**

Benchmarking SUMO Generated Traffic Simulation Results Based on GEH Statistic

Carsten Dalaff, Rüdiger Ebdndt, 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](#)

Predicting travel time of a vehicle in occluded area with SUMO

[Wei Li](#), Dominik Rosenbaum, Claudia Santa and Matthew Fullerton

### 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: Integrating SUMO with a Matlab Nanoscopic Model Simulink

[José Macedo](#), Guilherme Soares, Zafeiris Kokkinogenis, Deborah Perrotta and Rosaldo Rossetti

Drivers attitude and its influence on the energy waste of electric buses

[Deborah Perrotta](#), José Luis Macedo, Rosaldo Rossetti, João 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 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 Chraïbi, Armin Seyfried and Felix Huber

Extending SUMO for supporting tailored driving styles

[Joel Gonçalves](#) and Rosaldo Rossetti

ROAD INTERSECTION MODEL IN SUMO

Daniel Krajzewicz and [Jakob Erdmann](#)