

# SCHEDULE.

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
09:00		Opening Keynote Coffee Break	Keynote Session "Innovation"	Lean Startup Machine	Breakout Workshops Focus Topics Coffee Break	Lean Startup Machine: Final Pitches Awards
10:00		Keynote Session "Business"	Breakout Workshops Focus topics	Lean Startup Machine		
11:00		Lunch	Lunch	Lunch		
12:00		Keynote Session "Society"	Lean Startup Machine	Social Activity and Working on business ideas for Lean Startup Machine	Plenary "From research to startup"	Closure, Farewell
13:00	Welcome Address Conference Opening	Keynote Session "Research"				
14:00	Poster Pitches Coffee Break	Panel Discussion Preparation Break				
15:00	Service Innovation & Service Design Thinking	Apero Poster Fair				
16:00	Plenary French Consulate Cocktail Reception	Dinner				
17:00		Fireside Chat				
18:00						
19:00						
20:00						

# ORGANIZATION.

July 18-23, 2016.  
Tegernsee, Bavaria, Germany.

**Venue**  
Hotel Terrassenhof  
Adrian-Stoop-Straße 50  
83707 Bad Wiessee

**Scientific Committee**  
Paul Alibert (Bureau de Coopération Universitaire, french embassy)  
Martin Arend (BMW Group)  
Prof. U. Finger (Eurecom), Co-Chair  
Thomas Goldbrunner (TUM)  
Prof. A. Herkersdorf (TUM), Co-Chair  
Prof. Jérôme Haerri (EURECOM)  
Axel Honsdorf (BFHZ)  
Prof. Jörg Ott (TUM)  
Hannemor Keidel (TUM)  
Hans-Jörg Vögel (BMW Group)

**Organizing committee**  
Christine Astor (BMW Group)  
Thomas Goldbrunner (TUM)  
Antoinette Humeau (BFHZ)  
Wibke Michalk (BMW Group)  
Juliette Ronceray (BFHZ)  
Sebastian Schelper (BMW Group)  
Hans-Jörg Vögel (BMW Group), Chair  
Sebastian Zimmermann (BMW Group)

Contact the organizing team at:  
driveme2016@easychair.org

**Submissions**  
See the full call for contributions and details on submission and registration process online at  
<http://summerschool.bmw>  
<https://easychair.org/conferences/?conf=driveme2016>

Important Date: extended submission deadline May 22, 2016.

# BMW SUMMER SCHOOL 2016. FINAL PROGRAMME.

**Car as a service – creating tomorrow's smart mobility service platform.**

4<sup>th</sup> French-German summer school for PhD candidates and junior scientists.

July 18-23, 2016.  
Tegernsee, Bavaria, Germany.

Chair: Prof. U. Finger (Eurecom) & Prof. A. Herkersdorf (TUM)

<http://summerschool.bmw>

Organized by:



Endorsed by:



# FINAL PROGRAMME.

All speakers and titles subject to change.

## Monday, July 18, 2016.

### Plenary Session

- 13:00 - 13:15 Welcome Address  
Prof. U. Finger (EURECOM), Prof. A Herkersdorf (TUM)
- 13:15 - 13:30 Introduction to the IEEE Connected Vehicles Initiative by the IEEE Vehicular Technology Society  
Prof. Jérôme Härrı (EURECOM)
- 13:30 - 14:15 Digital Society  
MDir. Tobias Miethaner, Head of Department (German Ministry of Transport and Digital Infrastructure)
- 14:15 - 15:45 Poster Pitches  
Elevator pitches on posters, n.n (all participants)

### Plenary Session

- 16:00 - 17:30 Service Innovation and Service Design Thinking  
Prof. G. Satzger (Karlsruhe Institute of Technology & IBM)
- 17:30 - 18:15 The ADAS challenge – on the road to autonomous vehicles  
Dave Marples (Technolution)

### Evening

- 18:30 - 19:30 French consulate cocktail reception  
Hosted by Jean-Claude Brunet, Consul Général

## Tuesday, July 19, 2016.

### Plenary Session

- 09:00 - 10:00 Opening Keynote  
Jens Monsees, Head of Digital Strategy (BMW Group)

### Plenary Session „Business“

- 10:30 - 11:15 New Mobility Models: Car Sharing  
Nico Gabriel, CEO (DriveNow GmbH&Co KG)
- 11:15 - 12:00 New Business Models: Energy Services  
Joachim Kolling, Head of Energy Services (BMW Group)

### Plenary Session „Society“

- 13:00 - 13:45 New Mobility Models: City Transport  
Maxim Nohroudi, CEO (allyapp.com)
- 13:45 - 14:30 Things grow better in time  
Norma Sosa, IBM T.J. Watson Research Center

# FINAL PROGRAMME.

## Tuesday (contd.)

### Plenary Session „Research“

- 15:00 - 15:45 Frontiers in wireless communications  
Prof. Jörg Widmer (IMDEA)
- 15:45 - 16:30 The Big Data Zoo: A Survival Guide  
Asterios Katsifodimos (TU Berlin, DFKI, Berlin Big Data Center)

### Panel

- 16:30 - 17:30 Panel Discussion  
Moderator Martin Arend, Head of E/E Architectures and Technologies (BMW Group)

### Poster Fair

- 18:00 - 19:00 Aperı Poster Fair
- 19:00 - 19:30 Daily Feedback

## Wednesday, July 20, 2016.

### Plenary Session „Innovation“

- 09:00 - 09:45 Artificial Intelligence in Autonomous Driving  
Joachim Langenwalter, Director Automotive Software (nvidia)
- 09:45 - 10:30 Connected technologies disrupting business  
Jacques Amselem, Head of IoT (Allianz)

### Breakout Sessions

- 10:30 - 12:00 Parallel workshops, breakout into smaller groups, interactive.  
Topics and moderators: see separate programme

### Lean Startup Machine

- 13:00 - 14:00 Coaching on Lean Startup Methodology
- 14:00 - 18:00 Sprint 1 – Lean Startup Machine  
Christine Astor, Sebastian Zimmermann (BMW Group)

### Poster Fair

- 18:00 - 19:00 Aperı Poster Fair
- 19:00 - 19:30 Daily Feedback

## Thursday, July 21, 2016.

### Lean Startup Machine

- 09:00 - 12:00 Sprint 2 – Lean Startup Machine

# FINAL PROGRAMME.

## Thursday (contd.)

### Social

- 13:00 - 18:00 Excursion or other activity, options t.b.a.

## Friday, July 22, 2016.

### Breakout Sessions

- 09:00 - 10:30 Parallel workshops, breakout into smaller groups, interactive.  
Topics and moderators: see separate programme

- 11:00 - 12:00 Sprint 3 – Lean Startup Machine

### Lean Startup Machine

- 13:00 - 14:00 Urban innovation  
Assaf Biderman, Assoc. Director Senseable City Lab (MIT)
- 14:00 - 15:00 The Copenhagen Wheel: a startup case study  
Assaf Biderman, Founding CEO (superpedestrian.com)
- 15:00 - 18:00 Sprint 3 – Lean Startup Machine

### Poster Fair

- 18:00 - 19:00 Aperı Poster Fair
- 19:00 - 19:30 Daily Feedback

## Saturday, July 23, 2016.

### Lean Startup Machine

- 09:00 - 12:00 Lean Startup Machine: Final Pitches, Awards

### Plenary Session

- 12:00 - 13:00 Closing of the Summer School, Farewell ceremony

### The BMW Summer School will be organized in three tracks:

**Keynote/breakout track** – Learning from invited speakers presenting their views and research.

**Poster track** – presentation & discussion of conference submissions.

**Lean startup machine** – develop innovative ideas in a competitive startup pitching format.

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## Breakout Session Programme.

### Wednesday, July 20, 2016.

#### Breakout Session 10:30 - 12:00

- Session 1 New Business, New Mobility – YOGOKO Case Study  
Jean-Marie Bonnin, Co-Founder (YOGOKO)
- Session 2 Design Thinking  
Jane Vita, Senior Creator & UX Designer (Futurice)
- Session 3 IoT, Networks and Middleware  
Soumya Datta, Communication Systems (EURECOM)
- Session 4 The enhanced human. Will we need a new self-concept between automated cars and a super intelligent environment?  
Susanne Müller (TUM)

### Friday, July 22, 2016.

#### Breakout Sessions 09:00 - 10:30

- Session 1 Tutorial „Mobile Networking – 5G and beyond“  
Dirk Kutscher, Chief Researcher Networking (NEC Labs. Europe)
- Session 2 The Ecosystem Value Framework: understanding the direct and indirect value offering in business networks  
Florian Urmetzer, Cambridge Service Alliance (Cambridge University)
- Session 3 An experimentation testbed for autonomous vehicle platform  
Martin van den Heuvel (Technolution)
- Session 4 Automotive HMI Design  
Alexey Vlasov (Rightware)

## Poster Programme.

### Poster Sessions Tuesday, July 19 – Thursday, July 21 18:00 - 19:00

Road regulation sensing using in-car sensors  
Stefania Zourlidou (Leibniz Universität Hannover) - withdrawn

Intra-vehicle UWB channel modeling in frequency-domain  
Aniruddha Chandra (Brno University of Technology)

Dependable Wireless Communications for Infrastructure-based Vehicular Networks  
João Almeida (Universitário de Santiago, Aveiro)

# FINAL PROGRAMME.

## Poster Programme (contd.).

Risky Gadgets to the Rescue – Leveraging Smart Devices to Design against Driver Distractions and Boredom

Fabius Steinberger (Queensland University of Technology)

Multiagent-based Route Guidance for Increasing the Chance of Arrival on Time  
Zhiguang Cao (Nanyang Technological University)

Automotive Cybersecurity Management  
Garikayi Madzudzo (Coventry University)

Prediction of Duration and Impact of non-recurrent road incidents in transportation networks

Banishree Ghosh (Nanyang Technological University)

P<sup>2</sup> Hub: Private Personal Data Hub for Mobile Devices

Michael Haus, Vittorio Cozzolino (Technische Universität München)

ParkGauge: Gauging the Occupancy of Parking Garages with Crowdsensed Parking Characteristics

Jim Cherian (Nanyang Technological University) - withdrawn

Quantifying the External Cost of New Technology Adoption in Urban Mobility Service Sector

Jianan Sun (Clemson University)

Influencing Factors for Supply and Demand on a Taxi Network: A Case Study for Munich

Michael Wittmann (Technische Universität München)

Autonomous Vehicle Control based on the Personal Driving Preference  
Il Bae (Yonsei University)

Emotion Recognition Using RF Signals  
Muneeba Raja (Aalto University)

A Token-Based MAC Protocol for Achieving High Reliability in VANET  
Ali Balador (SICS Swedish ICT Västerås AB)

Understanding the Role of Possessions in the Sharing Economy  
Martin Paul Fritze (University of Rostock)

A Privacy Aware Approach to Risky Driving Behaviour Detection and Telematics  
Sasan Jafarnejad (University of Luxembourg)

MAC design for 5G D2D communication for cooperative vehicular applications  
Arturo Antonio Gonzalez Rodriguez (Technische Universität Dresden)

VocalAge Intelligent Safe Operation Reasoning System  
Tiffany Tong (University of Toronto and VocalAge Inc.)

Agent-based Modeling and Simulation of Electric Taxi Fleets  
Benedikt Jäger (Technische Universität München)

Model Based Tracking and Prediction of Traffic Behaviour  
Zhongzhen Luo (McMaster University)

Smart Grid Business Model Innovation Framework based on a Distributed Energy Resources Services Platform  
Marcelo Sandoval (Georgia Institute of Technology)

# FINAL PROGRAMME.

## Poster Programme (contd.).

Advanced Vehicular Antenna Structures for Two-tier Wireless Communication Systems

Samer Henry (University of Toronto)

Decision Making in Autonomous Taxi Services with Impatient Customers  
Pasquale Grippo (Alpen-Adria-Universität Klagenfurt)

foundi - makes your car hear  
Paul Balzer (TU Dresden)

Quality of Life and Public Safety Agents  
Cristian Pana (Jacobs University)

Smart Communication Plane for Self-Driving Vehicles  
Ioannis Mavromatis (University of Bristol)

Mobile agent: solution for vehicular network  
Chadha Zarari (Institut Supérieur de Gestion de Tunis)

Predictive Reference Governor for Constraint Handling of a String Stable Platoon of Connected Vehicles

Bijan Sakhdari (University of Waterloo)

Can ITS-G5 & Wi-Fi Coexist?  
Irfan Khan (Institute Eurécom)

Mission Critical Wireless Networking for Industrial Internet of Things (IIoT)  
Beshr Al Nahas (Chalmers University)

Feature-based Fault Tolerance Approach using Self-Awareness (SA) and Self-Expression (SE)

Tatiana Djaba (Airbus Group Innovations)

Community-generated Alerts and Connected Cars  
Otto Piramuthu (Buchholz High School)

Supporting the Stakeholder Participation with Design Tools in New Service Development within a Living Lab Bus Context

Elina Hildén (Tampere University of Technology)

Agent Based Authentication Protocol for Secure Communication In VANETs  
Shrikant Tangade (REVA University)

Intra-Vehicular VLC Networks For High Speed Connectivity  
Bugra Turan (Koc University)

Multi-objective Flow-Interface mapping in Heterogeneous and Mobile Networks  
Rodrigo Silva (Telecom Bretagne)

Mixed traffic flow with 2-wheelers: Macroscopic modeling and analysis  
Sosina M. Gashaw (Eurecom)

Coordinated maneuvering supporting mixed conventional and autonomous vehicles  
Raj Haresh Patel (Eurecom)

Developing predictive models for the connected car: a collaborative platform for traceable data science model benchmarking  
Yohann Sitruk, Adrien Castagnie, Abdelkrim Mujib (Mines Paristech)

# FINAL PROGRAMME.

Special Event

## **Fireside Chat**

**Tuesday, July 19, 2016. 8 pm.**

**The City of the future –  
mobility, urbanity and social life in 2030**

John Cohn, IBM Fellow (IBM Research Watson IoT)

Holger Hampf, Head of Design Customer Experience (BMW Group)

Martin Arend, Head of Electronics and Technologies (BMW Group Research)

Hans-Joachim Faulstroh, Head of User Experience (BMW Group Research)