

# SCHEDULE.

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

# 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
- 20:00 - 22:00 Dinner  
Hosted by Jean-Claude Brunet, Consul Général  
in presence of Pierre Robion, Vice-consul

## 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 Anselem, 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 - 22:00 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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All speakers and titles subject to change.

## 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\*2 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. 8:30 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)