1st TUM Research Alumni Conference
Living and Mobility in Smart Cities
August 28-29, 2017, TUM CREATE, Singapore

organized by Technische Universität München
under the auspices of the sponsorship program “Research Alumni Meetings Abroad”
administered by the Alexander von Humboldt Foundation
and funded by the German Federal Ministry of Education and Research

The meeting is a constituent part of the collaborative project “International Research Marketing” which is a joint initiative by the Alexander von Humboldt Foundation, the German Academic Exchange Service, the Deutsche Forschungsgemeinschaft and the Fraunhofer-Gesellschaft. All the activities within the project are part of the “Promote Innovation and Research in Germany” initiative under its brand “Research in Germany”. The initiative is funded by the German Federal Ministry of Education and Research.
Program

Monday, August 28

from
6:00 AM  Breakfast (optional)

8:05 AM  Bus Shuttle to TUMCREATE
Meeting Point: Hotel Lobby beside Concierge

9:00 AM  Registration

9:15 AM  Welcome Note
Prof. Dr. Dr. h.c. mult. Wolfgang A. Herrmann
President, Technical University of Munich

9:30 AM  Opening Speech
Mr. Knut Zuchan
Head of Science and Technology Department
Embassy of the Federal Republic of Germany to Singapore

9:45 AM  Research Opportunities in Germany and the Role of Research Alumni
Dr. Barbara Sheldon
Head of Strategic Planning, Alexander von Humboldt Foundation

10:00 AM  TUM Ambassadors' Talk  Once a Guest, Forever a Friend
Dr. Hannemor Keidel
Senior Vice President International Alliances and Alumni, Technical University of Munich

Prof. Dr. Sivaji Chakravorti
National Institute of Technology Calicut, TUM Ambassador 2013

Prof. Dr. Raman I. Sujith
Indian Institute of Technology Madras, TUM Ambassador 2014

Prof. Dr.-Ing. Mikio Horie
Tokyo Institute of Technology, TUM Ambassador 2015

10:15 AM  Photograph Session with TUM President
Coffee Break

10:30 AM  Singapore’s Smart Nation Initiative
Mr. Vance Ng
Deputy Head, Smart Nation Programme Office, Singapore
11:00 AM Session I: Technology as Innovative Solutions

- Solution of Temperature Conditioning in Smart Cities
  Prof. Dr. Vijay Jindal, Honorary Professor, Bio and Nano Science, Panjab University

- Polymere-made Planar and Spatial Mechanisms for One-Room-Factory in Smart Cities
  Prof. Dr.-Ing. Mikio Horie, Tokyo Institute of Technology

- Remote Monitoring of Power Equipment
  Prof. Dr. Sivaji Chakravorti, Director, National Institute of Technology Calicut

12:00 PM Networking Lunch

1:00 PM Session II: Innovations for a Seamless Public Transport Experience

- Creating a Seamless Public Transport Experience for Rapid Growing Megacities
  Dr.-Ing. Andreas Rau, Principal Investigator, TUMCREATE LTD

- Bettering the Spatial Planning of Public Electric Vehicle Charging Facilities: The Cases of Beijing and Hong Kong
  Dr. Sylvia Ying He, Assistant Professor, Department of Geography and Resource Management, The Chinese University of Hong Kong

- Virtual Reality Environments as Scientific Tools for Presentation, Elaboration and Evaluation of Autonomous Vehicles for public transportation in Singapore
  Mr. Sebastian Stadler, Research Associate, TUMCREATE LTD

- Bike Sharing System: Like a Rainbow over City Sky
  Prof. Dr.-Ing. Ying Zhang, Professor, School of Transportation Engineering, Tongji University

- Mobility Analysis of Floating Car Data
  Dr.-Ing. Linfang Ding, Researcher, Free University of Bozen

- Overview of TUMCREATE: Towards the Ultimate Public Transport System
  Prof. Dr.-Ing. habil. Alois Knoll, Chair of Robotics and Embedded Systems, Department of Informatics, Technical University of Munich

3:15 PM Coffee Break

3:30 PM Summary of Sessions I and II
  Prof. Dr.-Ing. habil. Alois Knoll

3:45 PM Visit to TUMCREATE

5:15 PM End of Conference Day 1
  Bus Shuttle to Mercure Singapore Bugis Hotel

6:25 PM Bus Shuttle to Paulaner Braeuhaus Restaurant
  Meeting Point: Hotel Lobby beside Concierge

7:00 PM President’s Dinner
  Paulaner Braeuhaus Restaurant

  Return to hotel independently
Tuesday, August 29

From 6:00 AM  Breakfast (optional)

8:35 AM  Bus Shuttle to TUMCREATE
          (Meeting Point: Hotel Lobby beside Concierge)

9:15 AM  Registration

9:30 AM  Welcome & Introduction to Conference Day 2
          Prof. Dr.-Ing. habil. Alois Knoll

9:45 AM  Session III: Smart Living
          Smarter Towns, Better Living
          Mr Heru Santoso Soedarsono, Deputy Director, Infocomm and Intellectual
          Property Hub, Housing and Development Board, Singapore

10:15 AM  Coffee Break

10:30 AM  Session III: Smart Living (cont’d)
          Smart and Universal Education Environment for Life-Long Learning
          Prof. Dr. Jiyou Jia, Professor, Department of Educational Technology, School of
          Education, Peking University
          The Changing Structure of Urban Public Health
          Prof. Dr. Meirong Su, Professor, School of Environment and Civil Engineering,
          Dongguan University of Technology
          Monitoring and Management of the Mobility and ADL for the Elderly
          Prof. Dr.-Ing. Houde Dai, Professor, Quanzhou Institute of Equipment
          Manufacturing, Haixi Institutes, Chinese Academy of Science
          3D/4D City Modeling in the Context of Virtual Singapore
          Prof. em. Dr. mult. Armin Gruen, Information Architecture, Department of
          Architecture, ETH Zürich, Technical-Scientific Project Leader of “FCL-Virtual
          Singapore”, Singapore-ETH Centre

11:45 AM  Summary of Conference
          Prof. Dr.-Ing. habil. Alois Knoll

12:15 AM  Reimbursement of Travel Costs
          Networking Lunch

1:45 PM  Bus Shuttle to Land Transport Authority Singapore

2:30 PM  Visit to Land Transport Authority Singapore

4:00 PM  End of Conference
          Bus Shuttle to Mercure Singapore Bugis Hotel