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

Context
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

Sunday, August 27

6:00 PM  Welcome Drink – Informal Get-together (optional)
          BARTISTRY@ONE22, Mercure Singapore Bugis Hotel Bar

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

10:30 AM  *Singapore’s Smart Nation Initiative*
          Mr. Vance Ng
          Deputy Head, Smart Nation Programme Office, Singapore
11:00 AM  Session I: Mobile Applications & 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

TBC
Dr.-Ing. Andreas Rau, Principal Investigator, TUMCREATE LTD

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

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

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
Dress Code
Conference Days: Business Formal
Welcome Drink & Paulaner Braeuhaus Dinner: Smart Casual

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Land Transport Authority, 181 River Valley Rd, Singapore 179034