Emerging solutions for future mobility systems

Dr. Stefan Seer

Integrated mobility systems can be a main driver to facilitate climate change mitigation and improve the livability for all people. New opportunities arise from multi-modal transport services, increased data availability and novel digital planning tools. These enable to develop solutions in several urban domains, such as new integrated mobility services, resource-efficient architecture, human-centered design of the public realm and green environments.

This keynote speech will highlight Austrian and international best-practice solutions concerning the growing deployment of new transportation forms, such as shared mobility concepts, on-demand services, and automated driving. The presentation will discuss how co-creation planning environments can be applied for effectively implementing and managing these emerging modes of transport in multi-modal mobility systems, matching them to user needs and assessing their impacts at an early stage.

Stefan Seer is Senior Scientist at the AIT Austrian Institute of Technology in Vienna, where he leads the "Integrated Digital Urban Planning" research group - an interdisciplinary team of more than 15 engineers, computer scientists, mathematicians, architects, transport and urban planners. Stefan and his team focus on enhancing the reliability of urban systems, thus making them more efficient, safe and comfortable while improving their sustainability. He is also Research Affiliate with the SENSEable City Lab at the Massachusetts Institute of Technology (MIT).

Driven by the question how technology can be employed to improve our urban public space he is interested in sensing systems, data mining and models for simulating and predicting human mobility. Stefan has over 15 years of experience in managing complex projects with a diverse set of internal and external stakeholders from academia, the public and private sector across continents. He has successfully transformed research results of his team into consultancy services and implemented large-scale solutions. These have been used in a wide range of applications, such as crowd simulations to analyze complex pedestrian flows, computer-aided crowd control systems and virtual reality technologies to evaluate urban designs.

He has a Ph.D. in Computer Science from Vienna University of Technology with a dissertation on "A Unified Framework for Evaluating Microscopic Pedestrian Simulation Models", as well as a Master's Degree in Electronics Engineering focusing on Computer Science and Systems Technology, and Audio- and Video Engineering. Stefan has co-authored numerous publications in high-ranked journals and is a frequent speaker at international conferences and invited lectures.

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