Title: The Smart City 2030

Abstract:

Our cities need "intelligence" to become Smart Cities, especially, as the bigger part of the world population will live in cities by 2050. But how does this intelligence come about? There are many issues a Smart City has to deal with in respect to its digitalization. There is a need for the measurements of aspects such as city structure and governance, communication, mobility and traffic, transport and logistics, energy and resource infrastructure, water, health, environment and climate, safety and education. In most cases, each of those sub-systems is currently run separately, using technologies available today, and may not even be digitalized yet. However, as there are many interrelationships between those sub-systems, for a global optimization it is necessary to provide an integrated view. This is especially true for real-time systems, e.g., controlling the traffic infrastructure. It becomes obvious, that the digitalization using ubiquitous computing and communication systems of the City 2030 are of utmost importance to transform it into a "Smart City 2030". The talk will outline some technology trends in this context and derive their impact on the citizens and their Smart City 2030.