Intelligent data for Smart Cities

Friday 10 June 2022 – Room Hermes – 09h00-12h30
https://www.isprs2022-nice.com/index.php/session/intelligent-data-for-smart-cities/

Organisers: Sisi Zlatanova (UNSW, Australia) and Vincent Tourre (Centrale Nantes, France)

The notion of Smart City is becoming critical to understand city dynamics, identify trends, predict further changes and provide a mechanism to make cities manageable, liveable and sustainable. In this forum, five smart city experts will debate on spatial data and their use in developing smart city technologies. The goal of the forum is to bring forward emerging and challenging topics for research.

Panelists

Volker Coors | Irina Bastrakova | Gilles Gesquiere | Yang Yue | Valerio Signorelli

Topics summary

- Data usage (*eg* wellbeing, green roofs, smart waste collection, smart traffic)
- Data acquisition (sensors in a broad sense)
- Data modeling/standards (*eg* CityGML, IFC, LandInfra, linking data, semantics)
- Physical phenomena/human behavior modeling (*eg* wind simulation, crowd behavior)
- Interaction (*eg* Visual analytics, virtual/augmented reality, public displays)

Session planning

The session is organised with two parts (separated with a 20 min break) 1/ five short keynotes to introduce the various topics (1h20) and 2/ a panel to have a cross view points on the topics (1h50).

Short keynotes (10 min each + questions)

- Volker Coors (HFT Stuttgart, Germany, Scientific Director of the Institute for Applied Research)
- Irina Bastrakova (Geoscience Australia, Australia, Principal Advisor on Metadata Data and Linked Data)
- Gilles Gesquiere (University Lumière Lyon 2, France, Director of Intelligence of Urban Worlds Lab)
- Yang Yue (Shenzhen University, China, Director of Shenzhen Key Laboratory of Spatial Smart Sensing and Services)
- Valerio Signorelli (UCL, England, Lecturer in Connected Environments CASA)

Panel (10/5/5 – Ten questions to five experts on five topics)

Each topic will be addressed by two keynote speakers to share and cross their view points about the next key challenges identified in the management of the urban data: massive data, heterogeneity, complexity, etc.

Time is planned for the question of the audience to let the discussion append.

Everyone is most welcome to participate in the discussions!