

# Smart assistive navigation devices to support wise decisions of the digital citizen

*Prof Sara Fabrikant, University of Zurich*



## **Abstract:**

Daily, millions of citizens make time critical and societally relevant decisions on the go supported by mobile, assistive geographic information displays. However, how should the mobile geographic information display of the future look like to avoid, what others have coined, “technological infantilizing of society”, that is, the reduction of our capacity to still make wise decisions without smart technological assistance?

Dr Fabrikant will highlight ongoing empirical research on human and context responsive geographic information displays used in the lab and in the wild, capitalizing on ambulatory human behaviour sensing methods (i.e., eye tracking, galvanic skin response, and EEG measurements). Based on collected empirical evidence and supported by cognition and vision theories we are guiding the process of designing smart, human, task, and context responsive geographic information interfaces for wise decisions of us smart digital citizens.

## **Presenter:**

Dr Sara Irina Fabrikant is a Professor of Geography, leading the Geographic Information Visualization and Analysis (GIVA) group at the GIScience Center of the Geography Department at the University of Zurich (UZH), Switzerland. She holds a PhD in Geography from the University of Colorado at Boulder (USA). Her research and teaching interests lie in geographic information visualization and geovisual analytics, GIScience and cognition, graphical user interface design and evaluation, including dynamic cartography. She is a Co-Director of the UZH Digital Society Initiative and a member of the Swiss Science Council. She serves the International Cartographic Association as a vice president and was involved in co-chairing the program committees of AGILE 2008, GIScience 2010, and COSIT 2015.

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*Te Kura Kairāri*

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**L1 Lecture Theatre  
School of Surveying  
310 Castle Street**

