Assoc. Prof. SISI ZLATANOVA, Dr.
Leader of a research group "Geo-information for Crisis Response" at the GIS Technology section, TU Delft
The NETHERLANDS

Keynote Speech title:
"3D GIS: the technology behind the pretty 3D picture"

Sisi Zlatanova is an associate professor and the leader of a research group 'Geo-information for Crisis Response' at the GIS Technology section, OTB Research for the Built Environment, Faculty of Architecture and the Built Environment, Delft University of Technology, the Netherlands. She has graduated as a surveyor at the University of Architecture, Civil Engineering and Geodesy, Sofia, Bulgaria in 1983 and has obtained her PhD degree on '3D GIS for urban modelling' at the Graz University of Technology, Graz, Austria in 2000. Her research interests have always been in 3D geo-information: modelling, management and visualisation. Her PhD thesis was one of the first works to link 3D reconstruction with 3D topological models and define 3D topological relationships between object embedded in 3D space.

She teaches several courses related to 3D modelling, spatial decision support systems and emergency response, where many aspects of 3D GIS are discussed and practiced with the students. Currently she is involved in two master programs Geomatics and GIMA. She has given a number of invited lectures and has organised four training schools on 3D modelling in universities in Belgium, Bulgaria, China, Czech Republic, Germany, Italy, Malaysia, Russia, Spain and USA. Since several years her research has focused on 3D indoor modelling and navigation. She supervises several MSc and PhD students who are developing tools for conversion between IFC and CityGML, 3D indoor navigation, indoor partitioning for localisation, 3D web visualisation. But she still considers more general 3D GIS topics such as 3D data integration of objects above and below ground, voxels representations, 3D management and visualisation of line objects (pipelines) and 3D spatial analysis (cross section and profiles).

She has participated in the Scientific Committees of many International conferences such as UDMS, ISPRS, SDH, ASPRS, Web3D, AGILE, Cartography and GIS, Indoor3D. She is a co-founder of 3D GeoInfo and Gi4DM conferences, which have about 15 editions by now. She is a vice chair of OGC SWG IndoorGML, a chair of the ISPRS WGIV/7: '3D Indoor modeling and navigation', 2012-2016, a member of the Scientific Committee of Integrated Research on Disaster Risk (IRDR) and Editor-in-Chief of the 'International Journal of 3-D Information Modeling'. Over the years she has published more than 200 scientific papers and edited or co-edited 18 books.

e-mail: S.Zlatanova@tudelft.nl