

Assoc. Prof. Dubravko Gajski, Ph.D.

Dubravko Gajski attended elementary school in Donja Stubica and secondary school at the „Ruđe Bošković“ Educational Center in Zagreb and graduated as an electronics technician for radio, television and broadcasting equipment. He enrolled at the Faculty of Geodesy at the University of Zagreb in 1988. During his studies, he received an IAESTE scholarship and spent three months in the Cartography Department of the Faculty of Geodesy at the Technical University of Bonn, Germany. On this occasion he worked on the introduction and development of the official German topographic and cartographic information system ATKIS. He graduated in 1994 with a topic in photogrammetry: „SCOP – Application of the digital relief model“ under the mentorship of prof.dr.sc. Theodor Fiedler. He enrolled in the postgraduate doctoral program in Geodesy, Geodesy and Geoinformation at the University of Technology Vienna, Republic of Austria, in 1998. He defended his dissertation entitled "Raster-based terrain surface analyzes" on February 2, 2005 with excellent results and on 11 June 2005 he was promoted to Doctor of Technical Sciences at the Technical University of Vienna. He was appointed associate professor for the scientific field of technical sciences, a scientific field of geodesy, at the Faculty of Geodesy, University of Zagreb. He holds several courses in photogrammetry at the Faculty of Geodesy and courses „Remote Sensing in Landscape Architecture“ at the Faculty of Agricultural Sciences, as well as the course of Photogrammetry and GIS in postgraduate doctoral studies at the Faculty of Civil Engineering, University of Zagreb.

Since 2006 he has been Head of the Department of Photogrammetry and Remote Sensing at the Faculty of Geodesy. Since 2007.g. he has been a member of the Scientific Council for Remote Sensing at the Croatian Academy of Sciences and Arts. From 2010.g. to 2014.g. he is the Vice Chairman of the Remote Sensing Council at Croatian Academy of Sciences and Arts. He is the Head of the Section for Imaging, General Interpretation and GIS of the Scientific Council for Remote Sensing at Croatian Academy of Sciences and Arts. He is a member and one of the founders of the Center of Excellence for Computer Vision (CRV) and actively participates in its work.

His areas of interest are: photogrammetry, computer vision, three-dimensional modeling, laser scanning, remote sensing, geoinformation systems, algorithm development and their optimal computer implementation. His narrower field of interest is: computer vision, close-range photogrammetry and remote sensing as well as the functional integration of image sensors with other sensor types. The greatest achievements have been in the development of methods for the spatial calibration of multispectral and hyperspectral sensors, then in the application of close-range photogrammetry and UAV photogrammetry to monitor excessive erosion. In particular, it has improved the methods of documentation of archeological artifacts of the highest category in the Republic of Croatia by applying methods of close-range and macro-photogrammetry and researching optimal 3D modeling methods and photorealistic stereoscopic visualizations of the imaged artifacts.