



The Present and Future Ubiquity of 3D Geoinformation

Far from the generally two-dimensional (2D) cartographic analysis and traditional surveying that geoinformation has traditionally been associated with, the collection of three-dimensional (3D) data is increasingly commonplace, and real-time data collection allows for efficient monitoring. In recent years, even phones contain sensors for 3D data collection, moving the collection and use of 3D geoinformation from the professional sphere of surveying to an everyday occurrence for the general population.

As new technologies develop, expectations of results will also grow, and a 3D model considered impressive five years ago may no longer be so. Large 3D data sets also require efficient analysis to make use of the information contained within, which in turn necessitates the development of new processing methods. The rise of artificial intelligence is closely connected to improved efficiency in processing geospatial data, and will be a factor to consider at the professional and consumer levels alike.

The rapidly increasing democratization of 3D geoinformation moves the field into the public conscience, though professional knowledge is still essential. This lecture aims to present the most recent developments in the gathering and processing of 3D geoinformation, as well as note the implications of the current trends for the future.

About the Facilitator

Matias Ingman (M.Sc.) is a Senior Lecturer in the Land surveying Degree Programme of the Metropolia University of Applied Sciences, Helsinki, Finland.

He is responsible for all geoinformation courses at Metropolia, and is passionate about presenting the opportunities that 2D maps and 3D models offer to explain the world, beyond simply describing it. Additionally, he is writing a doctoral thesis at Aalto University, Finland, with a focus on increasing the use of automation in data collection in road and path environments, as well as analysis thereof.

Scan the QR code for registration.



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Venue: Auditorium 1

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