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3D Indoor Mapping and Modelling

Guest Editors:

Dr. Lucía Díaz-Vilariño

Applied Geotechnologies
Research Group, Campus
Universitario de Vigo,
Universidade de Vigo, CINETEX,
As Lagoas, Marcosende, 36310
Vigo, Spain

Dr. Abdoulaye Abou Diakité

Geospatial Research Innovation
and Development (GRID) group,
Faculty of Built Environment,
University of New South Wales,
Sydney, Australia

Dr. Shayan Nikoohemat

Department of Earth Observation
Science, University of Twente,
7522 NB Enschede, The
Netherlands

Message from the Guest Editors

In the last few years, there has been intense research activity towards the mapping and automated modelling of indoor environments. Updated and detailed indoor models are being increasingly demanded for a variety of applications, such as building management, indoor navigation, location-based services, and emergency responses. However, existing interior models are often not up-to-date, and consequently, they do not represent the as-is condition of the scene.

LiDAR scanning and photogrammetry have been revealed to be suitable techniques to collect data at a large scale, especially when dealing with portable and mobile acquisition systems. Nevertheless, point clouds, which constitute massive and unstructured data, need to be efficiently processed in a way that useful information for the applications they intend to serve is extracted.

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Editor-in-Chief

Prof. Dr. Wolfgang Kainz

Cartography and Geographic
Information Science, Department
of Geography and Regional
Research, University of Vienna,
Universitätsstr. 7, A-1010 Vienna,
Austria

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*ISPRS International Journal of Geo-
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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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