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3D Indoor Mapping and Modelling

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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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