

Automatic Feature Recognition from Point Clouds

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Message from the Guest Editors

Recently, processing massive geospatial point cloud data has drawn extensive attention from the robotics, computer vision and computer graphics communities. The drive of this call is primarily to grow interdisciplinary interaction, interoperable frameworks and collaboration in point cloud processing among geo-information, photogrammetry, remote sensing, computer vision, computer graphics and robotics.

Applications are potentially increasing if we consider point clouds as digital reality assets. Yet, this expansion faces technical limitations mainly from the lack of semantic information within point ensembles. Connecting knowledge sources is still a very manual and time-consuming process which can suffer from error-prone human interpretation. This highlights a strong need for automated solutions to create coherent and structured information that can use relevant and flexible feature descriptors. This theme issue aims at gathering new insights in point cloud processing. Specifically, application-driven processes linked to spatial information modelling (CAD, BIM, GIS), infrastructure management, cultural heritage and remote sensing applications are encouraged.



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