

3D Indoor Modelling. Challenges and Opportunities

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SUMMARY

Research in support of indoor mapping and modelling (IMM) has been active for over thirty years. This research has come in the form of As-Built surveys, Data structuring, Visualisation techniques, Navigation models and so forth. Much of this research is founded on advancements in photogrammetry, computer vision and image analysis, computer graphics, robotics, laser scanning and many others. While IMM is used to be the privy of engineers, planners, consultants, contractors, and designers, this is no longer the case as commercial enterprises and individuals are also beginning to apply indoor models for navigation and facility management or Smart Cities and Digital twins. During the presentation challenges and opportunities related to IMM and the users will be shared and discussed.