

Robust Positioning in Indoor Environments

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SUMMARY

Achieving robust GNSS-like positioning capabilities in difficult environments such as indoors, present many challenges. New technologies offer much potential but each possess their inherent strengths and weaknesses all of which impact significantly on the goal of delivering seamless indoor/outdoor positioning capabilities. In this paper, the technologies currently dominating the indoor positioning field are presented. It also summaries some of the major approaches and methodologies under investigation or which have demonstrated the ability to harness their strengths and deliver enhanced performance capabilities. The current status of these technologies as well as the future research challenges for indoor positioning will also be discussed.

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