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Indoor Positioning for Low-Cost IoT Devices

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Precise positioning is traditionally accomplished by ground- or satellite-based navigation systems, but these are not usually available indoors. Indoor positioning systems have been demonstrated that rely on hardware normally used for wireless communication. These are either imprecise or require the use of costly high-performance hardware. We demonstrate the feasibility of decimeter-level precision for indoor positioning with the use of cost-optimized hardware specific to IoT nodes.

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