Abstracts

An obstacle sensing radar system for a railway crossing application: a 60 GHz millimeter wave spread spectrum radar

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We have developed a 60 GHz millimetre wave spread spectrum radar system. The radar was designed as a sensor for an obstacle sensing radar system for a railway crossing application, in which the sensing range per radar installation covers up to 90 degrees. With a pair of these radar systems (radar 1 and radar 2), the whole area of the railway crossing can be monitored. This paper describes the structure of the radar and it's working principles, and also our experimental test results.

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