



Contribution ID: 180

Type: not specified

Time discretization impact on the target localization precision using UWB radar

Thursday, 6 July 2017 16:15 (15 minutes)

UWB radar technology enables a target localization of an object, e.g., man behind a wall of known material consistency, e.g., concrete. If exact values of TOA (Time of a signal arrival from a transmitting antenna to a receiver) are known, it is possible to achieve high precision of localization. In the paper an influence of a time quantization on the localization precision will be studied and discussed.

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Session Classification: Mathematical methods and application software for modeling complex systems and engineering (III)