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Radar-Aided/Assisted Navigation and Positioning

Guest Editor:

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Deadline for manuscript submissions:
closed (31 March 2020)

Message from the Guest Editor

While the usage of global navigation satellite systems (GNSS), such as GPS/Galileo/GLONASS/BeiDou is ubiquitous and affords very high accuracy to an end user at a reasonable cost, there are still scenarios where these services may be unavailable, or compromised. Denial of positioning service in these circumstances may prove critical and prompt resorting to an entirely different technology. Radar sensors enjoy the benefit of being an all-weather/all-time instrument that potentially can provide both ranging and azimuthal resolution on a par with satellite navigation systems. Being an active sensor, a radar does not depend on any external source of signals and can employ signal diversity to avoid RF interference or jamming. These advantages and functionalities can be translated into a navigation/positioning alternative technology in GNSS-denied environments. We seek scientific contributions exploring this potential and describing systems, methods and/or propositions of framework for radar-aided/assisted navigation and positioning.

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Message from the Editor-in-Chief

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