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Title: SYSTEM AND METHOD FOR ORIENTATION AND RELATIVE LOCALIZATION OF AUTONOMOUS SUBSYSTEMS

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Abstract: NOVELTY - The invention relates to a system and a method for orientation and relative localization of autonomous subsystems as related to a common reference system. According to the invention, the system consists of a set of autonomous subsystems, each of which are provided with an orientation and localization hardware device, and communicating by electromagnetic and mechanical waves, and a central node having the role of summarizing the coordinates, which can be a steady equipment or a preset system. The method, as claimed by the invention, comprises a first stage of subsystem localization based on mobility prediction, a second stage of localization by distributed processing and cooperation with the proximal subsystems and a third stage of coordinate summarizing and subsystem mobility management with a view to maintaining the localization accuracy coefficient at high values.

Drawing:



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