

Title (en)

METHOD FOR PROCESSING A GNSS SIGNAL WITH A VIEW TO ATTENUATING AT LEAST ONE JAMMING SIGNAL

Title (de)

VERFAHREN ZUR VERARBEITUNG EINES GNSS-SIGNALS ZUR ABSCHWÄCHUNG MINDESTENS EINES STÖRSIGNALS

Title (fr)

PROCÉDÉ DE TRAITEMENT D'UN SIGNAL GNSS EN VUE D'ATTÉNUER AU MOINS UN SIGNAL DE BROUILLAGE

Publication

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Application

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Abstract (en)

[origin: WO2023057717A1] The invention relates to a method for processing a radio navigation signal originating from a satellite (SAT) and received by a radio navigation receiver comprising a plurality of receive antennas, each antenna being configured to receive signals originating from a satellite of interest (SAT), from at least one jammer and possibly from at least one other satellite (SAT) in given directions, the method comprising the following steps: detecting (E1), on the basis of the signal received by each antenna, at least one direction of a jamming signal; attenuating (E2, E2') the detected jamming signal in the detected direction; in which method detecting (E1) the direction of a jamming signal is based on determining a covariance matrix dependent on the signals received by each antenna given by (i), where Z is a matrix of size N x M in which each column corresponds to the signal received by each antenna, N denoting the number of samples acquired during a fixed period ΔT and M being the number of antennas.

IPC 8 full level

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