Title (en)
USING A SIDE-COMMUNICATION CHANNEL FOR EXCHANGING RADAR INFORMATION TO IMPROVE MULTI-RADAR COEXISTENCE

Title (de)
VERWENDUNG EINES SEITENKOMMUNIKATIONSKANALS ZUM AUSTAUSCH VON RADARINFORMATIONEN ZUR VERBESSERUNG DER MULTIRADARKOEXISTENZ

Title (fr)
UTILISATION D'UN CANAL DE COMMUNICATION LATÉRALE POUR ÉCHANGER DES INFORMATIONS RADAR AFIN D'AMÉLIORER LA COEXISTENCE MULTI-RADAR

Publication
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Application
EP 19714529 A 20190315

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Abstract (en)
[origin: WO2019190788A1] Methods, systems, and devices for wireless communications are described. In some systems, radio signals may reach a receiving antenna at a user equipment by two or more paths, which can cause interference (e.g., destructive multipath interference, constructive multipath interference, etc.). To reduce the interference, the user equipment may perform interference suppression, shaping, or both based on choosing radar waveform patterns that are varied across chirps. In one aspect, the user equipment (e.g., a vehicle) may identify waveform patterns selected by nearby vehicles based on side channel or centralized signaling and may suppress or shape interference by selecting waveform parameters based on this information. In one aspect, the pattern of waveform parameters is chosen from a codebook of patterns. The selected pattern can be broadcasted to the other vehicles using a side-communication channel.

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