

## Abstract Details

**Title:** Cache Based D<sup>2</sup> CARP Routing

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**Abstract:** D<sup>2</sup> CARP exploits spectrum diversity by establishing multi-channel reverse routes in RREQ phase. The existing technique is modified by introducing a concept of cache. Here the last utilized channel by PU will be remembered and the PU will firstly opt for the same channel. If the channel is not available then it proceeds normally. The proposed process reduces the delay as shown in by the simulation results. The simulation results confirm the better performance of the proposed algorithm as compared to existing algorithm.

**Keywords:** D<sup>2</sup> CARP, Cognitive Radio Network.