ISTT 2014 - 2014 IEEE 2nd International Symposium on Telecommunication Technologies 2 September 2015, Article number 7238173, Pages 39-44 2.10 Customize and control Google Chrom nunication Technologies, ISTT 2014; Langkawi; Malaysia; 24 November 2014 through 26 2nd IEEE International Symposium on Telecom November 2014; Category numberCFP14STT-ART; Code 115880 E-D2CARP: A joint path and spectrum diversity based routing protocol with an optimized PlumX Metrics
Usage, Captures, Mentions,
Social Media and Citations path selection for cognitive radio ad hoc networks (Conference Paper) Che-Aron, Z. ^a ⊠, Abdalla, A.H. ^a ⊠, Hassan, W.H. ^b ⊠, Abdullah, K. ^a ⊠, Rahman, M.A. ^c ⊠ ♀ beyond Scopus. *Department of Electrical and Computer Engineering, International Islamic University Malaysia (IIUM), Jalan Gombak, Kuala Lumpur, Malaysia

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*Department of Biomedical Electronics and Telecommunications Engineering, University of Naples Federico II, Naples, Italy Cited by 5 documents Cluster based routing in cognitive radio Abstract View references (14) adhoc networks: Reconnoitering SINR and ETT impact on clustering Cognitive Radio (CR) is a new paradigm which offers a viable solution to deal with the spectrum shortage problem and enhance the Dutta, N., Sarma, H.K.D., Polkowski, spectrum utilization. In Cognitive Radio Ad Hoc Networks (CRAHNs), data routing is one of the most challenging tasks due to frequent topology changes and intermittent connectivity caused by the activity of Primary Users (PUs). This paper proposes a joint path and (2018) Computer Com spectrum diversity based routing protocol with an optimized path selection for CRAHNs, referred to the Enhanced Dual Diversity An energy-efficient and robust Cognitive Ad-hoc Routing Protocol (E-D2CARP). The Expected Path Delay (EPD) routing metric used in the protocol for path decision is multipath routing protocol for cognitive radio Ad Hoc networks also introduced. The protocol utilizes the joint path and spectrum diversity and circumvents the PU regions during path establishment phase in order to make the transmission path less vulnerable to the impact of PU activities and provide efficient route recovery in presence gh, K. , Moh, S. of path failures resulting from PU activities. The performance evaluations are conducted through simulations using the NS-2 simulator. (2017) Sensors (Switzerland) Simulation results obviously demonstrate that the E-D2CARP can achieve better performance in terms of average throughput, packet loss, A model to improve the routing performance of cognitive radio wireless average end-to-end delay, and average jitter as compared to the recently proposed D2CARP protocol in identical scenarios. © 2014 IEEE. mesh networks Author keywords Kola, L.M., Velempini, M. (2017) South African Computer Journal Cognitive radio ad hoc network Joint path and spectrum diversity Optimized path selection PU region avoidance Routing protocol View all 5 citing documents Indexed keywords Inform me when this document is cited in Scopus: Engineering controlled (Ad hoc networks) (Network routing) (Routing protocols) (Telecommunication networks) Set citation alert > Set citation feed >

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