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Title	QoS Support in Wireless Sensor Networks by Focusing on Coverage Problem
Author	M. Ahmadinia, M. R. Meybodi, M. Esnaashari
Citation	Vol. 11 No. 3 pp. 55-61
Abstract	QoS in the area of wireless sensor networks (WSNs) can be measured based on different criteria: Network lifetime, network coverage, number of active nodes and energy consumption. In this paper, we propose a scheduling solution for activating and deactivating sensor nodes in the network in such a way that all of the above criteria are considered. In the proposed solution, which is based on cellular learning automata, each node is equipped with a learning automaton. The learning automaton of each node decides for the node to be active or not based on the energy level of the node and the activeness of its neighbors. Simulation results show that the proposed algorithm outperforms similar existing methods in terms of energy consumption and network lifetime.
Keywords	Wireless sensor network, Coverage, Cellular learning automata, Quality of service
URL	http://paper.ijcsns.org/07_book/201103/20110309.pdf