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Prevent Jamming Attacks in Wireless Networks by CPDS, DCS and AONT Techniques

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Abstract - Due to their nature wireless networks are vulnerable to denial of service (DoS) attack (any event that diminishes or eliminates a networks capacity to perform its expected function) Jamming attacks are one of the most urgent threats harming the dependability of wireless communication. Jamming attacks may be viewed as a special case of Denial of service (DoS) attacks. With the internal knowledge of protocol specifications and network secrets can launch low-effort jamming attacks that are difficult to detect and counter. An adversary masks the events that the sensor network should detect by jamming an appropriate subset of the nodes. In this paper, we concentrate on the problem of selective jamming attacks in wireless networks. We develop some schemes such as Disassembling commitment scheme (DCS), cryptographic Puzzle disassembling scheme (CPDS) and AON transformation that prevent real-time packet classification by combining cryptographic primitives.