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RESEARCH ARTICLE

ENHANCING SECURITY IN TWO-WAY RELAY NETWORK BY USING COOPERATION JAMMING AND RELAY SELECTION APPROACH

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Abstract* -*In wireless media, secure communication is one of the important concepts. We use Identity based cryptosystems in order to provide security in two-way relay networks. But due to the use of identity of a node as their public key, this scheme lacks the anonymity and privacy preservation. So, in order to solve this problem, propose a new approach in two-way relay networks by using cooperation jamming and relay selection approach for enhancing security. In this scheme, we propose a two-way relay network consisting of two sources, relays and an eavesdropper and there is a new relay chatting based on transmission scheme is proposed. It uses a single relay in order to forward the messages and the remaining relays transmit interference signals to confuse the eavesdropper by distributed beam forming.

Keywords –Jamming, Physical Layer Security, Relay Chatting, Secrecy Outage Probability, Two-way Relay Networks

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