

Trust Based Optimal Routing in MANET's

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Abstract: *MANETs are unplanned, self-organizing networks composed of mobile nodes that utilize mesh networking principles for inter-connectivity. The characteristics of MANETs topology such as open peer-to-peer architecture, dynamic network topology, shared wireless medium and limited resource (battery, memory and computation power) pose a number of non-trivial challenges to security design. The fixed infrastructure less environment makes the transactions less secure. Traditional routing algorithms in MANETs do not work with cryptographic techniques. Cryptography procedures were introduced in them to make secure transactions. This paper proposes a secure, trusted, optimal scheme for routing in MANETs.*