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## Reputation-based selfish nodes detection algorithms with redress mechanism in MANETs

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As a result of the changes in people's life and the conveniences of the wireless communications, the wireless networks showed an increasing growth during the last few years. Therefore many kind of mobile wireless devices are supported; i.e. the smart phone, the tablet PC, and the notebook. The MANET, different to the wireless networks with infrastructure, does not need any access point (AP) device. MANET relies on the cooperation of all the participating nodes. In MANET, the source nodes can relay packets to the destination node by other nodes. If the intermediate nodes have misbehaviors in the communication path, the throughput of MANET will be degraded. These misbehaviors are due to the selfish nodes. How to detect these selfish nodes in MANETs is very important. We will adapt AODV (Ad hoc On-Demand Distance Vector) routing protocol in MANET in this paper. Also we use ns-2 simulator to observe and verify the proposed algorithm in this paper. Finally we analyze the results obtained from ns-2 simulator.

### Biography

Lien-Wen Wu received PhD degree in Electrical Engineering of National Sun Yat-sen University, Kaohsiung, Taiwan, in January 2006. From June 1992 to August 2006, he worked at Chunghwa Telecom Co., Ltd. Since September 2006, he is working as an Assistant Professor at the Department of Computer Science and Information Engineering, Shu-Te University, Kaohsiung, Taiwan. His research interests include computer networks, high-speed networks, wireless mobile networks, and telecommunication networks.

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