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Analysis of Identity based Signature and Identity Based Offline Online Signature for Cluster based Wireless Sensor Networks

Mr.Swaitzer Joses

M.Tech, Department of Computer Science and Engineering, SRM University, India

Mrs.K.R.Jansi

Assistant Professor, Department of Computer Science and Engineering, SRM University

Abstract: The SET-IBS and SET-IBOOS produce digital signature with timestamp binding with node ID for security requirements and security analysis against various attacks and to avoid orphan node problem. Most of the wireless cluster based networks apply the symmetric key management for security, which suffers from a so-called orphan node problem. This problem occurs when a node does not share a pairwise key.