

International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

ISSN 2320-088X

IJCSMC, Vol. 3, Issue. 2, February 2014, pg.626 – 632

RESEARCH ARTICLE

EFFICIENT AND DISTRIBUTED NETWORK MODEL FOR P2P SYSTEMS

K.KAYALVIZHI¹

M.Tech Student

Department of Computer Science and Engineering
PRIST University Pondicherry, India
kkayal1988@gmail.com

BHARATHI.R²

Assistant professor

Department of Computer Science and Engineering
PRIST University Pondicherry, India
prist2009cse@gmail.com

ABSTRACT

Peer-to-peer networks are networks composed of heterogeneous and autonomous peers that cooperate with each other in a decentralized manner. All peers are both users and providers of resources and can access each other directly without intermediary agents. In the proposed system, we introduce a Self-Organizing Trust model (SORT) that aims to decrease malicious activity in a P2P system by establishing trust relations among peers in their proximity. Each peer develops its own local view of trust about the peers interacted in the past. In this way, good peers form dynamic trust groups in their proximity and can isolate malicious peers. . Finally, an experimental study is conducted on a real P2P prototype, and a large-scale network is further simulated. The results show the effectiveness, efficiency and scalability of the proposed system.

KEYWORDS: Peer-to-peer systems, trust management, reputation, security

Full Text: <http://www.ijcsmc.com/docs/papers/February2014/V3I2201499a38.pdf>