Abstract

Recently the study of efficient vertical handover decision (VHD) algorithm for heterogeneous wireless networks using FR-HMM method which is called as Fuzzy Rule Based Hidden Markov Model (FR-HMM) is presented. In this paper our aim to investigate the performance of this proposed approach under various network conditions the metrics we computed are based on different kinds of applications like text messages, audio and video. For the performance evaluation we basically focused on performance metrics such as average throughput, packet delivery ratio, energy consumption, handover delay, authentication delay etc. The comparison is done among different kinds of application used for communication. Rest of paper is addressing the same proposed mathematic model, literature review and introduction from our previous publications and studies.

Index Terms
Computer Science
Wireless Networks
Keywords
Vertical Handover  Horizontal Handover  WLAN  GSM  WIMAX  Fuzzy Rules  HMM

Handover delay

performance estimation.