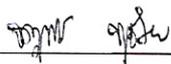


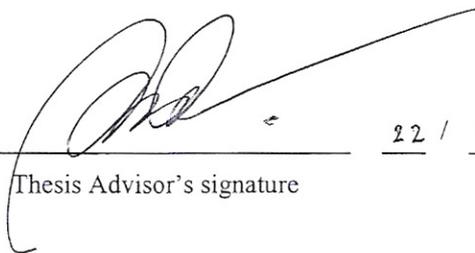
Jatuporn Chuchuy 2008: Technology Independent Handover Decision Model for Wireless Networks. Master of Engineering (Computer Engineering), Major Field: Computer Engineering, Department of Computer Engineering. Thesis Advisor: Associate Professor Anan Phonphoem, Ph.D. 84 pages.

Wireless networks are very popular and be available with various technologies such as Wi-Fi, Wi-Max and GPRS. Nowadays handheld devices are built with high wireless capabilities which easily swap among technologies. Users can make their own decision to connect with any wireless network that works for them. The section is based on signal strength, commit bit rate, security. If decision with user and provider selection not good performance. Cost will become too much from technical implement and payment.

In this research, a decision model for choosing suitable wireless technologies for a user has been proposed. We will monitoring signal from any networks in area and pass performance metric to decision model. The decision algorithm focuses on awareness of cost-optimizing and user is requirements. Moreover, by enhancing with ping-pong effect protection and predication hold-down timer, the decision algorithm becomes more suitable. From simulation user can required one factor or more than one factor. Some factor, average cost not minimize but user can use from requirement and user can choose in one or more factor to complex requirement . Finally this research can protect ping-pong effect and number of decision. So that we can choose suitable network and performance more than old decision.



Student's signature



Thesis Advisor's signature

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