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Performance Analysis of Channel Allocation Schemes in WiMAX

By Usman, Muhammad Rehan / Iqbal, Johar

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Channel Allocation in WiMAX | Over last few years use of wireless broadband has increased rapidly. There are two types of wireless broadband users, fixed and mobile. WiMAX is a new technology in 3G systems (near to 4G) and has support for wireless broadband users, both fixed and mobile. For fixed users (Mainly Office and Home) dis-connectivity in the connection is intolerable. Such users are needed to be allocated permanent channels, so they never face dis-connectivity due to unavailability of channels in the cell. This book provides analysis on channel allocation schemes, namely Non Prioritized Scheme (NPS) and Reserved Channel Scheme (RCS) in WiMAX scenario, in context of permanent channel allocation. These schemes were previously used for those cellular networks which had no need for permanent channel allocation in the cell. We have performed simulations on these schemes in MATLAB and have compared their results in terms of Blocking Probability (Pb), Probability of handover failure (Ph), Probability of forced termination (Pft) and Probability of not completed calls (Pnc). The analysis carried in this book should help professionals currently working for advancement of WiMAX cellular networks. | Format: Paperback | Language/Sprache: english |...


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