An Optimized way for Static Channel Allocation in Mobile Networks using Genetic Algorithms

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Volume 45 - Number 19

Year of Publication: 2012

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10.5120/7029-9829

Abstract

In this paper, we are proposing a new Genetic Algorithmic approach to solve Static Channel Allocation Problem. Genetic Algorithms are one of the better optimization techniques. The main goal of this paper is to assign channels to cells with efficient usage of bandwidth. This new methodology consists of new crossover and mutation techniques, based on the reuse distance of channels. In crossover the selected channels from an individual will be used for generating a new child for next generation through which utilization and reassign of channels will be efficient. In mutation by selecting the channel, checks within individual and reassigns the channel based on the reuse distance.

References

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Release notes of mathworks for Matlab and GA tool box

Index Terms
Computer Science Communications

Keywords
Genetic Algorithms Channel Allocation Chanel Allocation Problem Cells.