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

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

- Release notes of mathworks for Matlab and GA tool box

Index Terms

Computer Science Communications

Keywords

Genetic Algorithms Channel Allocation Channel Allocation Problem Cells.