

Wireless communication is used in a growing number of situations, for example in mobile telephony, wireless networks (WLAN), television and radio broadcasting, satellite communication or in military operations. It is necessary to solve the frequency assignment problem in each of the above situations, so that the communicating sides get connected and their connection is not interfered by other communicating subjects and connections. It is very important to be able to solve the problem well since the number of the participants in the wireless communication is rapidly growing.

This work provides introduction to the frequency assignment problem along with the overview of the most frequently used techniques for solving it. Selected methods are described in more details and are also implemented in the enclosed program.