

ABSTRACT

Topic: « The game theoretical approach of dynamic spectrum access in cognitive radio networks»

Explanatory memorandum presented on x pages and includes x illustrations and x sources for references.

Object of research is dynamic spectrum access technology.

The subject of the research is game theoretical approach.

Purpose of this work is to conduct an analytical review of the different game models due to which dynamic spectrum access technology can be implemented. The main focus of attention has been predominantly on cooperative and non-cooperative games.

Nowaday, wireless access networks are the key aspect of the development and integration of the telecommunication industry in any field of human activity. With the advent of technical progress and the number of wireless networks, the question about the optimal use of the radio frequency spectrum is raised. The technology of cognitive radio allows such networks to use the spectrum dynamically. Dynamic spectrum access is the most vital application of cognitive radios. [will be contined]

The research results were published in abstracts of scientific conferences.

Keywords: cognitive radio, dynamic spectrum access technology, game theory, cooperative games, non-cooperative games.