
Mitran Radu

DOMAINS OF PROFICIENCY:

- Ad-hoc mobile radio networks (MANET).
- Digital signal processing.
- MATLAB programming.

SIGNIFICANT RESULTS:

- Participation at the elaboration of military standards in the field of communications.
- Performance evaluation of spectral- and power-efficient digital modulation techniques.
- Development of algorithms for recognizing and classifying radio signals which are specific for military communications.

He is a doctoral student at the Technical University of Cluj-Napoca (the title of the doctorate degree paper is Study on the Methods Used for Analyzing and Processing Radio Signals in the Interception Systems Used in Special Applications, scientific coordinator: Univ. Prof. Dr. Eng. Radu Munteanu, Technical University, Cluj-Napoca).

In this project he will be responsible for: realization of software applications facilitating the modeling and simulation of the propagation channel in different environments; development of methodologies for measuring the electromagnetic field emitted by the radiation sources of the HCDR (High Capacity Data Radio); analyzing the jamming and interception resistance of the FH equipment by implementing algorithms based on non-linear methods and HOS analysis of environments affected by fading and interference.