Various Approaches of Recognition of Digitally Modulated Signals

© 2012 by IJCA Journal

Volume 44 - Number 10

Year of Publication: 2012

Authors:

Bhawna
Mukhwinder Kaur
G. C. Lall

10.5120/6301-8512

Abstract

Digital modulation techniques are use when the information signal is digital and the information signal is modulated by the amplitude, phase or frequency of a carrier. Various digital modulation techniques are used for various signal transmission. All these techniques provide versatility to the transmission medium and recognizing these modulation schemes is quite useful for the military and COMINT applications. All Digital modulation methods are based on some statistical parameters. Various recognition algorithms have been developed and still developing. The recognition algorithms are divided into two major groups maximum likelihood approach (MLA) and pattern recognition approach (PRA). Aim of this paper to describe different techniques of modulation recognition in brief along with various key features involve in these techniques, including all consideration of transmitter and receiver.

References

Various Approaches of Recognition of Digitally Modulated Signals

- G. Acosta, "OFDM simulation using Mat Lab", Report, Smart Antenna Research Laboratory Georgia Institute of Technology, Georgia, USA, August 2000.
- HU You-qiang, LIU Juan, TAN Xiao-hang, "Digital modulation recognition based on instantaneous information &quot;June 2010.
- Liang Hong K. C. Ho, "Identification of Digital Modulation Types Using the Wavelet Transform" vol2, pp. 20. 2. 1-20. 2. 6, October 2010.
- Mobien shoaib, Alharbi Harza, Alturki Fahd, "Robustness of digital modulated signals against variation in Hf noise model", EURASIP journal on wireless communication network, 2011.
Index Terms

Computer Science  Communications

Keywords
Ask  Psk  Sdr  Comint  Modulation Recognition