

# **A Talk on Automatic Recognition of FEC Code and Interleavers Parameters in a Robust Environment**

## **Speaker Biography**

Swaminathan R received his Ph.D. degree from the Department of E&ECE, IIT Kharagpur, Kharagpur, India, in 2016. His current research interests are broadly in the performance analysis of wireless digital communication systems over fading channels, blind estimation of FEC code and interleaver parameters, cooperative communications, and free space optics (FSO) communications.



## **Abstract**

In this talk, algorithms for the joint recognition of the type of FEC codes and interleaver parameters with only limited information about the channel encoder will be discussed. The proposed algorithms automatically classify the incoming data symbols among block coded, convolutional coded, and uncoded symbols along with estimating the interleaver parameters over erroneous channel conditions. Moreover, blind estimation algorithms to identify Reed-Solomon (RS) code and interleaver parameters over robust (noisy) environment will also be discussed. Accuracy of parameter estimation for various test cases will be shown to prove the robustness of the algorithms. Finally, performance comparison of the proposed algorithms with the prior works in the literature will be reported.

**Date-27-3-2018**  
**Timing-5 to 6pm**  
**Place-Seminar Room**