

Summary of the Academy Training Program on "Adaptive Signal Processing: Theory and Application" from 26 Feb. 2016 to 01 March 2016

Above said training programe was held at Deptt. Of ECE, MNIT, Jaipur. The aim of the workshop was to enrich the knowledge in the area of adaptive signal processing and interact with the eminent speakers in this area.

The experts delivered lectures in this workshop was

- (1) Prog. Ganapati Panda, School of electrical sciences, IIT Bhubaneswar
- (2) Dr. Pyari Mohan Pradhan, Deptt. Of Electronics and Communication, IIT; Roorkee
- (3) Dr. Nitin V. Gerge, Deptt. Of Electrical Engg., IIT, Gandhinagar
- (4) Dr. Sitanshu S. Sahu, Deptt. Of Electronics and Communication, BIT, Mesra Ranchi.
- (5) Dr. S. J. Nanda, Deptt. Of Electrronics and Communication, MNIT, Jaipur

The following topics covered in this workshop

- (1) Adaptive filter structure
- (2) LMS, FXLMS, RLS algorithm
- (3) Adaptive system identification
- (4) Adaptive channel equalization
- (5) Time series prediction
- (6) Adaptive noise cancellation
- (7) Adaptive filter for biomedical application
- (8) Adaptive techniques for wireless sensor networks
- (9) Genomic signal processing
- (10) Adaptive filters for radar signal processing
- (11) Short time fourier transform
- (12) S-transform
- (13) Discrete wavelet transform
- (14) FPGA and DSP architecture for adaptive systems

This training program also included lab sessions based on MATLAB, several experiments based on above topics have been performed by the participants. The workshop covered multi disciplinary applications using adaptive signal processing.

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