

Technical Meeting Report

Chapter MNIT IEEE Signal Processing Society

Malaviya National Institute of Technology Jaipur (INDIA)

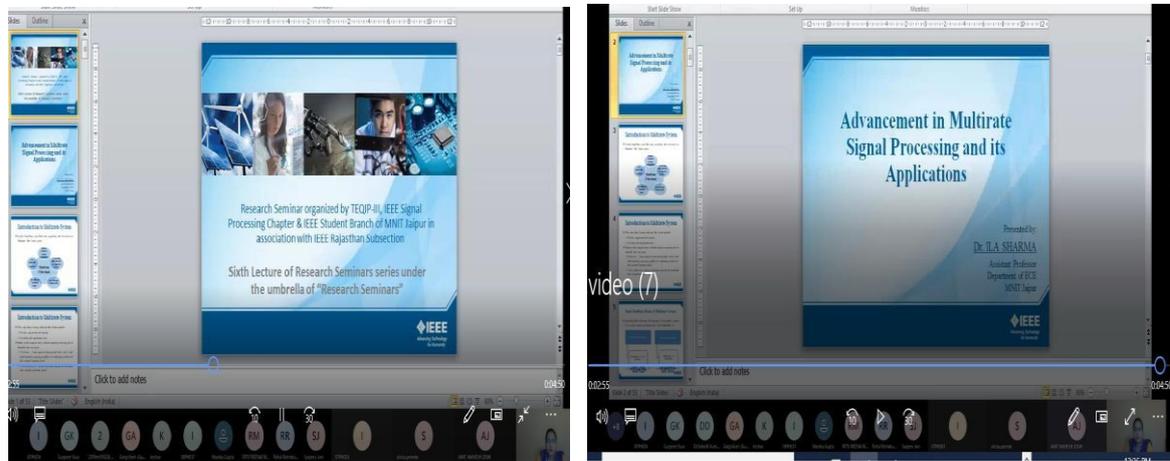
Lecture 1: Advancement in Multirate Filter bank and its Application



Dr. Ila Sharma, Assistant Professor,
ECE Dept., MNIT Jaipur
Date : 12/10/2020 Time : 5.00 pm to 6.00 pm

The first lecture under the MNIT Signal Processing chapter was conducted on 12 October, 2020 from 5.00 pm to 6.00 pm. The expert lecture was also as research seminar with collaboration with IEEE Rajasthan sub section, IEEE Student Branch and TEQIP III MNIT Jaipur. Dr. Ila has delivered a talk on "Advancement in Multirate Filter bank and its

Application". During last few decades, multirate filterbanks have emerged as an attractive field of research due to their unique ability of decomposing a signal into different subbands and recombining the different subbands signals into composite one. These systems handle more than one sampling rate with the help of highly efficient filters and filterbanks. It has become an important field of research due to continuously increasing applications of signal processing such as Speech/Audio/Video compression, Transmultiplexers, classifications of data. In this special Talk, these analytical descriptions of Multirate Filterbank and its application were discussed. The lecture was attended by around 50 participants through online mode through Microsoft Teams Platform. Some of the Photos of the event is as follows:



Lecture 2: Emerging Technologies for Diabetes Care during COVID-19



Dr. Amit M. Joshi, Assistant Professor,
Dept. of ECE, MNIT Jaipur
Date : 14/10/2020, Time : 5.00 pm to 6.00 pm

The second lecture under the MNIT Signal Processing chapter was conducted on 14 October, 2020 from 5.00 pm to 6.00 pm. The expert lecture was also as research seminar with collaboration with IEEE Rajasthan sub section, IEEE Student Branch and TEQIP III MNIT Jaipur. Dr. Amit has delivered a talk on "Emerging Technologies for Diabetes Care during COVID-19" where he has emphasised on role of machine learning for COVID-19 with diabetes as case study. Diabetes is considered as an critical comorbidity linked with COVID-19 which spreads through SARSCoV-2. The diabetic patients have higher threat of infection from novel corona virus. The talk has covered useful smart healthcare solutions for the diabetes patients during COVID-19 outbreak using machine learning techniques. The lecture was attended by around 30 participants through online mode through Microsoft Teams Platform. Some of the Photos of the event is as follows:

Slides Outline

Diabetes Self-Management: Barriers and Solutions

- ◆ Lack of Confidence in Self-care
- ◆ Technology Awareness
- ◆ Proper Diet Plan
- ◆ Economic and Social Obstruction
- ◆ Legal Barrier:

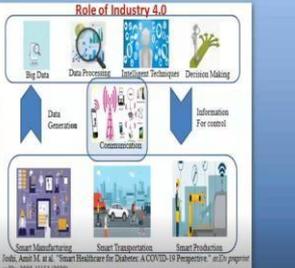


Click to add notes

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Slides Outline

Role of Industry 4.0



Big Data, Data Processing, Intelligent Techniques, Decision Making

Data Generation, Communication, Information For control

Smart Manufacturing, Smart Transportation, Smart Production

Abdel-Aty, M. et al. "Smart Healthcare for Diabetes: A COVID-19 Perspective" in *IS* paper on 20th 2020 (2020).

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09:53