

	
<b>Webinar Title: Time-Frequency Analysis</b>	

**Registration Fee: - Rs. 1200.**

**Expert Speaker: - Prof. Ram Bilas Pachori**

**Webinar Date: 01<sup>st</sup> November, 2020      Time: 06 PM-09 PM (IST)**

**About Webinar: -**

In real life, signals can be classified as stationary and non-stationary signals. The frequency-domain based methods for signal analysis are suitable for stationary signals. In order to have meaningful analysis of non-stationary signals, time-frequency analysis based methods have been proposed in the literature. Such methods include techniques like short-time Fourier transform (STFT), wavelet transform, Wigner-Ville distribution, Hilbert-Huang transform (HHT), Fourier-Bessel series expansion based empirical wavelet transform (FBSE-EWT), etc. In this webinar, the fundamentals related to time-frequency analysis will be provided. The working principles of various time-frequency analysis techniques will be explained. The various applications of these time-frequency analysis techniques in the areas of biomedical signal processing, speech signal processing, and communication will be provided. The webinar will also discuss about the implementation of these time-frequency techniques in MATLAB.

**Speaker Profile:-**

Dr. Ram Bilas Pachori has been working as a Professor since 2017 at IIT Indore. He was a Visiting Professor at School of Medicine, Faculty of Health and Medical Sciences, Taylor's University, Subang Jaya, Malaysia during 2018- 2019. He worked as a Visiting Scholar at Intelligent Systems Research Center, Ulster University, Northern Ireland, UK during December 2014. He is an Associate Editor of Electronics Letters, Biomedical Signal Processing and Control journal and an Editor of IETE Technical Review journal. He is a senior member of IEEE and a Fellow of IETE and IET. He has more than 200 publications which include journal papers (122), conference papers (65), books (04), and book chapters (16). His publications have around 7000 citations, h index of 45, and i10 index of 111 (Google Scholar, October 2020). He has been listed in the top h index scientists in the area of Computer Science and Electronics by Guide2Research website. His area of research is Signal Processing and Machine Learning.

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