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OBJECTIVE	To utilize my knowledge, skills, and attitude towards growth of the organization.
RESEARCH INTERESTS	Non-stationary signal processing, Time Frequency analysis, and Pattern recognition.
JOURNAL PUBLICATIONS	 Citations 510 h-index 8 i10-index 7 31 Sachin Taran, Varun Bajaj, Rhythm based identification of alcohol EEG signals, IET Science, Measurement and Technology, accepted for Publication 2018.
	30 Varun Bajaj , Mayank Pawar, Vinod Kumar Meena, Mukesh Kumar, Ab- dulkadir Sengur, and Yanhui Guo, Computer Aided Diagnosis of Breast Cancer using Bi-dimensional Empirical Mode Decomposition, Neural Computing and Applications, Accepted for Publication, 2017.
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- **PROJECT**1. V. Bajaj(PI) Brain computer interface for classification of human emotions,
Research Initiation Grant In IIITDM Jabalpur 1Lakh, OnGoing.
- **PROFESSIONAL**Referee Service: IEEE Signal Processing Letters, IEEE Transactions on Biomedical**SERVICE**Engineering, IEEE Transactions on Information Technology in Biomedicine, KSIITransactions on Internet and Information Systems, Biomedical Signal Processing
and control, Journal of Medical Engineering and Physics, Computer Methods and
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Systems etc.
- RESEARCH • Ph.D Supervision -SUPERVISION (1) Shweta Jain (Jointly), ECG signal enhancement and classification In Progress (2) Nikhil Agrawal (Jointly), IIR filter design using evolutionary algorithm In Progress (3) Sachin Taran (Singly), Methodologies for classification of EEG signals, In Progress (4) Santhos (Jointly), In Progress • M.Tech Supervision -(1) Khushnandan Rai (MTech-1310206) New Features for Classification of EEG Signals 2015 (2) Vipin Kumar Mishra (MTech-1410217) New methodologies for analysis and classification of EMG signals 2016 (3) Sumit Kumar Yadav (MTech-1510211) New algorithms based classification and analysis of EEG signals2017 (4) Sukumar Analysis and classification of EMG signals. B.Tech Supervision -(1)Gaurav Sahu, Nishant Chaurasia, Prem Prakash Suwalka (2011108) Time frequency analysis for classification of non-stationary signals 2014
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 (3) Harshita Meena, Manish Gehlot, Yogit Kumar, Classification of EEG sig-
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(5) Anchala Priya, Pooja Yadav Discrimination of alcoholic and normal EEG signal using EMD method 2016

(6) Mayank Pawar, Mukesh Kumar, Vinod Kumar Meena, Breast cancer detection 2016.

(7) Pragati Rani, Swati Walde Time Frequency Image based Features for Detection of Focal EEG signals 2016

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(9) P Uday Kiran (2014234) and N Abhiram (2014118) Tunable-Q Factor Wavelet Transform based Classification of ALS and Normal EMG signals 2017 (10) Saad Ahmad (Roll no. 2014148) Shubham Agrawal (Roll no. 2014171) and Samta Joshi (Roll no. 2014242) Optimum Allocation Sampling - Empirical Mode Decomposition based classification of Environmental Sound 2017.

(11) P J Sudharshan (Roll No. 2014120) Statistical Machine Learning - Application on Medical Imagery 2017

(12) K Y V S PRIYANKA (2014224), ARAVAPALLI BHAVYA SRI (2014031), and ANALA HARI KRISHNA (2014022), TQWT Based Innovative Approach for Emotion Classification Using EEG Signals 2017

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• Co-coordinated national conference "Recent Trends in Instrumentation, Com- munication and Microelectronics," at Shri Vaishnav Institute of Technology and Science, Indore 2010
• Co-coordinated national conference "Recent Trends in Instrumentation, Com- munication and Microelectronics," at Shri Vaishnav Institute of Technology and Science, Indore 2010
• Organized one day Workshop on "MATLAB application in signal processing," at Department of Electronics and Communication, Sushila Devi Bansal College of Technology Indore, on Feb 2014.
• Guest lecture on "Recent trend of biomedical signal processing," at Department of Electronics and Communication, IPS Academy Indore, on Feb 2014.
 Programming Language: C, MATLAB. HDL Language: VHDL, Verilog. Software Packages: SPSS Software Front end Tool: Xilinx ISE, Quartus, Modelsim. Backend Tool:
 TANNER Tool(S-Edit, T-spice, w-Edit). Synopsys (CosmosSE and Csope) Cadence (icfb and virtuoso, spectreRF)
 Paper entitled, "Separation of rhythms of EEG signals based on Hilbert-Huang transformation with application to seizure detection", is selected as the best paper award in ICHIT 2012, South Korea. Paper entitled, "Analysis of normal and epileptic seizure EEG signals using empirical mode decomposition", is selected in the top 20 articles in BioMedLib 2011. Doctoral scholarship, Ministry of Human Resource Development, India (2010-2013) Post graduate scholarship, Ministry of Human Resource Development, India
 Graduate scholarship, Government of India (2002-2006)
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