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Designation: Associate Professor

Department: Department of Electronics and Communication Engg.

(JOINED THE INSTITUTE IN 2022)

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RESEARCH INTERESTS

Preprocessing of non linear and non stationary time series such as bio medical signal and renewable energy t.s. using adaptive mode decomposition

AcademicQualifications:

Ph.D. (contd.), VIT University,India

M. Tech. Electronics, MNNIT, Allahabad

Specializations : Digital System

B.Tech (Applied Electronics & Instrumentation Engg), N.I.T. Rourkela

TeachingExperience:

19 years in teaching Signals and Systems, Digital Signal Processing, Image Processing, Adaptive Signal Processing, Statistical Signal Processing, Electrical and Electronics Measurement, Sensors and Transducers, Process Control Instrumentation

IndustrialExperience:

7 years in Chloro-Alkali and Caustic Fusion plant : Preventive and breakdown maintenance of various process control instrumentation such pressure, level, flow, temperature transmitters, control valve sizing, instrumentation interlock and piping diagram modification/ updation.

ResearchExperience:

3 years in the field of time series preprocessing using adaptive decomposition

**JOURNAL
INTERNATIONAL:**

- [1] Review of Adaptive Decomposition-Based Data Preprocessing for Renewable Generation Rich Power System Applications, **Das S**, Prusty B R, Bingi K, Journal of Renewable and Sustainable Energy(AIP)vol. 13, no. 6, (2021)1-20
- [2]. Whirl Orbital Response Control of Micro Rotors With Flexural Modes, Abhro Mukherjee, **Satyabrata Das**, Sabyasachi S Sengupta. The International Journal of Acoustics and Vibration, vol. 23, no. 3,(2018)343-354
- [3]. Numerical Simulation of a small size rotor with self induced instability using sliding mode and FOPID controller and their comparison" International Journal of Mechatronics and Applied Mechanics, Abhro Mukherjee, **Satyabrata Das**,International Journal of Mechatronics and Applied Mechanics (2018) vol. 3,(2018), 28-36
- [4]. A Simple Linear Quadratic Regulator Approach for Active Stabilization of Mini Rotors Due to Spinning Dissipation, Abhro Mukherjee, **Satyabrata Das**,Journal ofInternational Information and Engineering Technology Association, No.4,Vol.73(2018),171-181
- [5]. Stabilizing Varying Eccentricity Problem In Hydrodynamic Bearings Using Elegant Control Strategies, S.J Siva Abhishek, Niranjana Kumar Gupta, Abhro Mukherjee, **Satyabrata Das**, Journal of Instrumentation Technology & Innovations, No.3,Vol.6(2016),14-20

Conferences:

- [1]. Time Series Decomposition Techniques for Renewable Generation Applications, **Satyabrata Das**, B Rajanarayanan Prusty, Kishore Bingi, Kaibalya Prasad Panda, and Gayadhar Panda,1st International Symposium on Sustainable Energy and Technological Advancements ISSETA 2021: 24th – 25th September, 2021
- [2]. Conformal Mapping Based Control Approach for Rotor Supported On Journal Bearing Aayush Bhadani, Abhro Mukherjee and **Satyabrata Das**, Contemporary issues in computing(CIC), Intelligent Computing and Industry Design(ICID) 2(1),pp.134-136,2020
- [3].Performances Comparison of Non linear Hydro dynamic Journal Bearing with Rotor Internal Damping Using Optimal and Fractional Order Controllers Aniruddha Roy, Abhro Mukherjee and **Satyabrata Das**, CALCON, pp 418-422, IEEE Conference2017

- [4]. Stabilizing Hydrodynamic Bearing Using H^∞ Loop Shaping Design Procedure Abhro Mukherjee, **Satyabrata Das**, S. J Siva Abhishek, Niranjana Kumar Gupta, Proceedings XIII Control Instrumentation System Conference (18th Oct' 2016)
- [5]. Stabilizing Internal Damping in Hydro dynamic Bearings Using Elegant Control Strategies S.J Siva Abhishek, Niranjana Kumar Gupta, Abhro Mukherjee, **Satyabrata Das**, Proceedings XIII Control Instrumentation System Conference (18th Oct' 2016)
- [6]. Stabilizing Hydrodynamic Bearings using Elegant Control Strategies S.J Siva Abhishek, Niranjana Kumar Gupta, Abhro Mukherjee, **Satyabrata Das**, Proceedings XIII Control Instrumentation System Conference (18th Oct' 2016)
- [7]. Kalman filter based optimal control approach for attitude control of a missile, N Patro, A Mukherjee, K Halder, A Rout and **Satyabrata Das**, International conference on computer communication and Informatics (ICCCI) Coimbatore, pp 4-6, 2013
- [8]. Color Image Enhancement by Scaling Luminance and Chromatic Components, **Satyabrata Das**, Sukanti Pal, National Conference at H.B.T.I. Kanpur 26th-27th Mar' 2011
- [9]. A Novel Technique for realizing on line Linear Phase IIR Filters, **Satyabrata Das**, Amit Dhawan, National Conference at S.R.K.R. Engg. College on 24th-25th June 2005.
- [10]. **Invited talk** at Trident Institute of Technology, Bhubaneswar, from 18/12/2013 to 31/12/2013 on Graphical System Design using LabVIEW during Faculty Development Program