

## DR. DIPAK KUMAR MISHRA



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**Area of Expertise:** Instrumentation and Control

**Area of Research:** Signal Processing, Pattern recognition, Instrumentation

### Publication (Journals):

#### International Journals

1. Dipak Kumar Mishra, Badal Sarkar, Chiranjib Koley and Nirmal Kumar Roy, "AnUnsupervised Gaussian Mixer Model for Detection and Localization of Partial Discharge Sources using RF Sensors", IEEE Transactions on Dielectrics and Electrical Insulation. Vol. 24, Issue 4, pp. 2589-2598, August 2017. DOI: 10.1109/TDEI.2017.005976
2. Badal Sarkar, Dipak Kumar Mishra, Chiranjib Koley, Nirmal Kumar Roy and Palas Biswas, "Intensity-Modulated Fibre Bragg Grating Sensor for Detection of Partial Discharges Inside High-Voltage Apparatus", IEEE Sensors Journal, Vol. 16, No. 22, pp.7950-7957, Nov. 2016. DOI: 10.1109/JSEN.2016.2608743.
3. Dipak Kumar Mishra, Anitha Bhukya, Chiranjib Koley and Nirmal Kumar Roy, "Radiometric Localization of Partial Discharge Sources inside Air Insulated Electrical

Substation”, IET Science, Measurement Technology Journal, Vol. 13 Iss. 8, pp. 1122-1130, 2019, DOI: 10.1049/iet-smt.2019.0004.

4. Dipak Kumar Mishra, Sourav Dhara, Chiranjib Koley, Nirmal Kumar Roy, Sivaji Chakravorti, “Self-organizing feature map based unsupervised technique for detection of partial discharge sources inside electrical substations”, Measurement Journal (Elsevier), vol 147, (2019) 106818, 2019, DOI: 10.1016/j.measurement.2019.07.046

### **International Conferences**

1. Badal Sarkar, Dipak Kumar Mishra, Chiranjib Koley and Nirmal Kumar Roy, “Microstrip patch antenna-based UHF sensor for detection of Partial Discharge in High Voltage Electrical Equipment”, 2014 Annual IEEE India Conference (INDICON), 978-1-4799-5364-6/14, 2014.

2. Dipak Kumar Mishra, Badal Sarkar, Chiranjib Koley and Nirmal Kumar Roy, “Localization of Partial Discharge source in High Voltage apparatus using multiple UHF sensors”, IEEE International Conference on Energy, Power and Environment (ICEPE 2015), 978-1-4678-6503-1/15, IEEE, 2015.

3. Dipak Kumar Mishra, Badal Sarkar, Chiranjib Koley and Nirmal Kumar Roy, “Characterisation of Microstrip Patch Antenna Based UHF Sensor for Detection of Partial Discharge,” 2015 Annual IEEE India Conference (INDICON), 978-1-4673-6540- 6/15, 2015.

4. Dipak Kumar Mishra, Chiranjib Koley and Nirmal Kumar Roy, “A Novel TDOA Estimation Method for UHF Sensor based PD Localization System in HV Power Apparatus”, IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT-2017), 978-1-5090- 3239-6/17, IEEE, 2017.

5. Bhukya Anitha, Dipak Kumar Mishra and Chiranjib Koley, “Localisation of Partial Discharge source through Delay calculation using UHF sensors”, IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (IEEE WIECON-ECE 2017), 2017.

### **UGC Journals**

1. D. K. Mishra, "Baroreflex Sensitivity Estimation for Cardiovascular System Dynamics", Journal of Interdisciplinary Cycle Research Assessment, Volume 12, Issue 12, 2020, pp. 217-222, ISSN NO: 0022-1945, DOI:18. 0002.JICR. 2020.V12I12.008301.317122291

2. D. K. Mishra, D Kumar, N. Sethy, "A study on Cervical Spondylosis Using Surface Electromyography Techniques", The International journal of analytical and experimental modal analysis, Volume 12, Issue 12, 2020, pp.771-774, ISSN NO:0886-9367 DOI:18. 0002.IJAEMA. 2020.V12I12.200001.015685901655

### **National Journal**

1. D.K. Mishra, "Effect of Different Physiological Phenomena on the Cardiovascular system Dynamics coupled with Baroreflex- An Overview", ISSN No. 0970-9983, Published in Journal of Instrument Society of India, Vol 41, No. 4, December, 2011, Page 228-232