

FACULTY PROFILE



Name: Sirshendu Arosh

Highest Education Qualification: Ph.D.

Institute name (of highest educational qualification): IIT Bombay

Teaching Subjects: Signal Processing, Image Processing.

Research areas of interest:

- Power optimization schemes on solar farm using Image processing algorithms
- Zero power based surveillance system from LTAP system.
- Advanced warning system modelling by Boundary and Edge detection and tracking by both Image processing on image sequences and Wireless sensor network.
- Machine Learning and Big data analysis, Internet of Things (IoT).

Primary contact: E mail Id: sirshenduarosh@gmail.com; Phone No: +91- 8454928187

Official email:

Publications (best 5):

Patent:

1. S. Prakash, **S. Arosh**, S.K. Nayak, S.P. Dutttagupta, S. Dutttagupta, and M.K. Nambiar, "Non-uniform intensity mapping using high performance enterprise computing system." U.S. Patent No: US10054994B2.

Book Chapter:

2. K.Ghosh, S.Gupta, S.Pal, **S.Arosh**, "Estimation of Solar Irradiance on a Contoured Platform for Optimized Solar Power Generation" Springer (In Press).

Conference and Journal:

3. **S. Arosh**, K. Ghosh, S. Prakash, S.P. Dutttagupta, "Development of Robust Algorithm for Autonomous System Health Monitoring of Large-Scale Based Solar Farm" , 33rd EUPVSEC, 2017.

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4. **S. Arosh**, S. Prakash, S.K. Nayak, S.P. Dutttagupta, “Dynamic Arbitrary Shape Boundary Detection and Tracking Using Hungarian Kalman Filter”, 2016 IEEE Industrial Electronics and Applications (IEEE IEACon 2016).
5. **S. Arosh**, S. Prakash, S.K. Nayak, S.P. Dutttagupta, “Fitness function based sensor degradation estimation using H-infinity filter” Elsevier Procedia Computer Science 58 (2015): 172-177