

Dr. Sambeet Mishra

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Expertise: Power and Energy System, Mathematical Optimization, Machine Learning and Statistics

Work Experience

- 2015-2019 **RESEARCHER** *TTU, Estonia*
[Electrical Power Engineering](#)
- Power system reliability and adequacy
 - Renewable energy resources
 - Data Science and Machine Learning applications
- 2016-2018 **VISITING RESEARCHER (AFFILIATED)** *NTNU, Norway*
[Industrial Economics and Technology Management \(IØT\)](#)
[Center for Sustainable Energy Studies \(CenSES\)](#)
- Energy Economics
 - Mathematical Optimization Modelling
 - Industrial business process
- 2014-2015 **ENGINEER** *TTU, Estonia*
Electrical Power Engineering

Research Projects

- 2019-... MIGRATE - Massive Integration of Power Electronic Devices
- 2015-2019 Flex4RES - Flexibility for Variable Renewable Energy Integration
- 2014-2016 Effect of new electricity production patterns on high voltage equipment and cables isolation.
- 2015-2016 Cable networks and their effects on the function of the transmission network

Education

- 2014-2018 **DOCTORAL STUDIES** Graduation: December 2018
["Models for Modern Power Distribution System Planning"](#)
- Model for classifying wind power variations
 - Stochastic MILP formulation for Generation and Transmission Expansion with peer-to-peer market
 - Game Theory (coalitions) for expansion price settlements (MCP)
 - AC-OPF (MINLP) with Power System reliability indicators through applied machine learning classifiers
- Industrial partners:
- TrønderEnergi (Norway)
 - LO3 Energy, Brooklyn Microgrid (NewYork, USA)
- 2011-2013 **MASTER OF TECHNOLOGY** *KIIT University*
Specialization in Power & Energy system (Distinction) [Two dissertations]
1. "Design and simulation of a solar-wind-biogas hybrid system architecture using HOMER in India"
 2. "Characterization of ohmic contact layer in CdS-Al junction"
- Techno-economic decision making for rural electrification
 - Quantum energy (Nanotechnology)
- 2006-2010 **BACHELOR OF TECHNOLOGY** *KIIT University*
Electrical Engineering
Electrical Equipment control using C-programming

Publications

- 11 international conference presentations
- 7 peer-reviewed international journals
- *h*-index: 6 [[Scopus Author H-index](#)]
- 10 hour(s) Professional development from IEEE Smart Grid

Language Skills

Odia,Hindi, Native
Sanskrit

English Professional

IT skills

Python, Julia, GAMS, R, LaTeX, Microsoft Office, MATLAB, AIMMS
Operating systems: Windows, Linux (Ubuntu)

Professional Skills

- Power and Energy systems modelling
- Optimal decision making/ Operations Research
- Data Science & Machine Learning

Miscellaneous

Interpersonal Skills: Energetic and cheerful, Time management, Diligent & Team player, Calm
Hobby: Playing musical instruments