

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 <i>h</i> -index: 6 [Scopus Author H-index]	7 peer-reviewed international journals 10 hour(s) Professional development from IEEE Smart Grid
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Language Skills

Professional	English
Native	Odia, Hindi, Sanskrit

IT skills

Programming environments	Python, Julia, R, MATLAB, Octave
Algebraic environments	GAMS and AIMMS
Data management	Tableau and PowerBI
Office tools	Microsoft office, LaTeX, Markup
Operating systems	Windows, Linux (Ubuntu)
High performance computing	SLURM workload manager
Database management	sql-lite

Professional Skills

- Power and Energy systems
- Decision theory/ Operations Research
- Data Science & Machine Learning model development and deployment

Miscellaneous

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