

# Dr. Sambeet Mishra

📍 Tallinn | Estonia

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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

- 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)
- 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)

## Miscellaneous

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