

Dr. Soumya Ghosh



Google Scholar: <https://scholar.google.co.in/citations?user=SabdaDQAAAAJ&hl=en>

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Key Area Interest:

- ✓ Water energy nexus
- ✓ Soft computing techniques using in interdisciplinary research
- ✓ Hybrid renewable energy system develop and modelling
- ✓ Model of Climate change impact in water power sector
- ✓ Prediction of location selection in renewable energy sector

Teaching Experience:

Organization:	Mallabhum Institute of Technology
Designation	<i>Assistant Professor & In charge in Electrical Engineering Department</i>
Periods	July 2019- Present
Organisation:	NIMS University Rajasthan
Designation	Assistant Professor
Periods	October 2018-March 2019
Organisation:	Greater Kolkata College of Engineering and Management (JIS Gr.)
Designation	Assistant Professor in Electrical Engineering Department
Periods	September 2011- February 2013

Education:

2013-2018 (Awarded)	Ph. D in Engineering, School of Hydro Informatics Engineering, NIT Agartala, Tripura, India
2007-2009	M.E. in School of Water Resources and Hydraulics Engineering (Interdisciplinary), Jadavpur University, Calcutta, India
2003-2007	B.Tech in Electrical Engineering, Saroj Mohan Institute of Technology, West Bengal University of Technology, Calcutta, India.
2001-2003	Higher Secondary Education in Science, Katwa Bharati Bhavan High School, WBCHSE, Katwa, West Bengal, India
1999-2001	Secondary Education in General subject, Katwa Kashiram Das Institution, WBBSE, Katwa, West Bengal, India

Research Experience:

Doctorial Research:	Renewable Energy
Dissertation Title	Maximization of Conversion Efficiency for Offshore Wave Farms with the help of MCDM & Polynomial Neural Networks
Research Supervisors	Dr. Mrinmoy Majumder Assistant Professor & Associate Dean School of Hydro Informatics Engineering, NIT Agartala, Tripura, India Dr. Manish Pal Professor, Civil Engineering Department, NIT Agartala, Tripura, India

Research Publication:

➤ International Journal

- Shantanu Debnath, **Soumya Ghosh**; Experimental investigation of Electro discharge machining process by AHP-MOORA technique, Journal of Industrial Engineering and Decision Making; Vol. 2 No. 1 (2021); /DOI: <https://doi.org/10.31181/jiedm200201001d>
- **Soumya Ghosh**, Chakraborty, T; Saha, S; Majumder, M; Pal, M; "Development of the location suitability index for wave energy production by ANN and MCDM techniques." *Renewable and Sustainable Energy Reviews*, 59 (2016): 1017-1028.
- Shantanu Debnath, **Soumya Ghosh**; "Experimental investigation of Electro discharge machining process by AHP-MOORA technique". Journal of Industrial Engineering and Decision Making, Vol.2, No.1, April 2021,pp.1-7,ISSN:2683-5916,DOI: <https://doi.org/10.31181/jiedm200201001d>.
- **Soumya Ghosh**; Mrinmoy Majumder; Manish Pal; Development of Feasibility Index for Evaluation of Small Scale Hydro Power Plant by Neural Network & Multi Criteria Decision Making, *International Journal of Energy and Statistics*, 4 (2016).
- **Soumya Ghosh**; Mrinmoy Majumder; Manish Pal, Application of metaheuristic algorithm to identify priority parameters for the selection of feasible location having optimum wave energy potential, *International Journal of Energy and Environment*, (2016).

➤ International Monographs

- Mrinmoy Majumder and **Soumya Ghosh**, Selection of Hydropower Locations with the help of Decision-Making Algorithms, Springer Asia,2012 (Accepted).

➤ Book Chapters

- Prediction of Wave Energy Potential in India: A Fuzzy-ANN Approach, **Soumya Ghosh**; Mrinmoy Majumder; Metaheuristics in Bioenergy Supply Chain Design, IntechOpen Limited [*Accepted 2019*]
- Wave energy potential site selection based on MCDM and Neural Network Analysis, **Soumya Ghosh**; Application of Geographical Information Systems and

Soft computing Techniques in Water and Water Based Renewable Energy Problems, Springer Nature, ISBN: 978-981-10-6204-9, 2017.

- Selection of Optimized location for Ecoparks using Ant Colony Optimization, Mrinmoy Majumder, **Soumya Ghosh**; Application of Nature Based Algorithm in Natural Resources management, Springer-Verlag, ISBN- 978-94-007-515-14, 2012.
- Tradeoff analysis between Rainfall and Load factor of a small scale Hydropower Plant by Particle Swarm optimization, Mrinmoy Majumder, **Soumya Ghosh** and Rabindra Nath Barman; Application of Nature Based Algorithm in Natural Resources management, Springer-Verlag, ISBN- 978-94-007-515-14, 2012.
- Fuzzy-Based Impact Analysis study objective site selection of Tidal Power Plant, **Soumya Ghosh**, Mrinmoy Majumder, and Debasri Roy; Application of Nature Based Algorithm in Natural Resources management, Springer-Verlag, ISBN- 978-94-007-515-14, 2012.
- OPTIDAL: A New Software for Simulation of Climatic Impacts on Tidal Power, Mrinmoy Majumder, **Soumya Ghosh** and Rabindra Nath Barman; Application of Nature Based Algorithm in Natural Resources management, Springer-Verlag, ISBN- 978-94-007-515-14, 2012.

Conferences /Seminars/Workshops

- **Ghosh, S**; Chakraborty, T; AN AHP MCDM approach for Selection of Wind Power Plant Location: A Case Study from India; Device Modeling and Soft Computing for real-time applications (DMSC-2019); MIT Bishnupur, India.
- **Ghosh, S.**, Majumder, M. and Pal, M., Application of ANP in selection of converters for wave farm systems, International Conference on Soft Computing Techniques in Engineering and Technology (ASCTET)-2016, Hyderabad.
- Application of Soft computing & Optimization Techniques of Engineering & Engineering Science (ASCOTEES-2014), NIT Durgapur, India.
- Advances in Multi-Criteria Decision Making (MCDM) Techniques (2014), NIT Agartala, India.

Reviewer:

- Applied Energy (Elsevier).

Extracurricular Activities

Hobbies / Interests: Cooking, Landscape Photography, Cricket, Badminton

Permanent Address

Father Name: Ramkumar Ghosh

Address Katwa Circus Maidan, P.O.-Katwa, Dist.- Purbo Bardhaman
Landmark- Opposite Bank of India, 713130, West Bengal, India

Married Yes

Date of Birth 27 June 1985

Passport No. S0006822

IEI Membership No. AM1743921

Subject Interest

- Basic Electrical Engineering
- Renewable Energy
- Energy Conservation and management

Tools

- GMDH Shell
- Alyuda Neuro Intelligence
- R

Professional References

- *Dr. Manish Pal; Professor, NIT Agartala; Email: mani_nita@yahoo.co.in; M: +919856024665*
- *Dr. Arnab Mukherjee; Scientist D Department Name : Arctic Ocean- Atmospheric Studies;Email: amukherjee.physics@gmail.com, M: +91-9372670241*
- *Dr.Animesh Debnath, Assistant Professor, Civil Engineering Department, NIT Agartala; Email-debnathanimesh1981@gmail.com; M: +918575015404*

Declaration

I declare that the details furnished in this resume are true to the best of my knowledge.

SOUMYA GHOSH

DATE