

**Name: Dr. Moumita Pradhan**

**Department: Information Technology**

**Contact Nos.: 9433486517**

**Qualifications: PhD(CSE), M.Tech (OR), B.Tech(CSE)**



**Designation: Assistant professor**

**VIDWAN ID: 184912**

**Experience (Teaching / Research / Industry, in years): 16 years 2 months**

**Date of Joining at the Present Institution: 2.09.2005 (CSE/IT )**

**Qualifications Summary (Reverse chronological order):**

<b>Degree</b>	<b>Institute</b>	<b>From - To</b>	<b>Subjects</b>
<b>PhD (CSE)</b>	<b>NIT, Durgapur</b>	<b>2015-2019</b>	<b>Computer science and Engineering</b>
<b>M.Tech</b>	<b>NIT, Durgapur</b>	<b>2006-2009</b>	<b>Operation research and Business mgmt</b>
<b>PhD (CSE)</b>	<b>JIS, WBUT</b>	<b>2015-2019</b>	<b>Computer science and Engineering</b>

**Experience Summary (In chronological order):**

**Designation, Organization, Date From - Date To**  
**Assistant Professor, BCREC, Durgapur, 2005-2021**

**Specialization/Research Interest: Swarm Intelligence, Machine Intelligence**

**Awards & Recognitions**

**Global AD (Alper-Doger) Scientific Index 2021**

**Courses taught:**

**B.Tech:**

Artificial intelligence, Computer architecture, Object oriented programming concepts, Software engineering, Database management system  
c, java, c++ ( Programming languages)

**Online Mode of Teaching:** Storage device from

[Computer Organization and Architecture NPTEL IITG](https://www.youtube.com/watch?v=MhNm-c1JVPg) (https://www.youtube.com/watch?v=MhNm-c1JVPg)

The Faculty member needs to specify the online teaching/ assessment method adopted. (Link to any faculty created resources for Lecture notes / PPT/ Video Lecture etc. in Google Drive / Weblink etc)

**Publications:**

**Journal:**

[1] **Moumita Pradhan**, Provas Kumar Roy, and Tandra Pal. Grey wolf optimization applied to economic load dispatch problems. International Journal of Electrical Power & Energy Systems, **Elsevier, Web of Science, ISSN: 0142-0615; Impact Factor-3.588**, 83:325–334, 2016.

<https://doi.org/10.1016/j.ijepes.2016.04.034>

[2] Provas Kumar Roy, **Moumita Pradhan**, and Tandra Paul. Krill herd algorithm applied to short-term hydrothermal scheduling problem. Ain Shams Engineering Journal, **Impact factor :- 3.18, Elsevier, Web of Science, ISSN: 2090-4479**, 9:31-43, 2018.

<https://doi.org/10.1016/j.asej.2015.09.003>

[3] Sk Md Ali Bulbul, **Moumita Pradhan**, Provas Kumar Roy, and Tandra Pal. Opposition based krill herd algorithm applied to economic load dispatch problem. Ain Shams Engineering Journal, **Impact factor :- 3.18, Elsevier, Web of Science, ISSN: 2090-4479**, 9:423-440, 2018.

<https://doi.org/10.1016/j.asej.2016.02.003>

[4] **Moumita Pradhan**, Provas Kumar Roy, and Tandra Pal. Oppositional based grey wolf optimization algorithm for economic dispatch problem of power system. Ain Shams Engineering Journal, **Impact factor :- 3.18, Elsevier, Web of Science, ISSN: 2090-4479**, 9

(4):2015-2025, 2018.

<https://doi.org/10.1016/j.asej.2016.08.023>

[5] **Moumita Pradhan**, Provas Kumar Roy, and Tandra Pal. Economic load dispatch using oppositional backtracking search algorithm. International Journal of Energy Optimization and Engineering, **IGI Global Publication, Web of Science, ISSN: 2160-9500**, 6(2):79–97, 2017.

DOI: 10.4018/IJEOE.2017040105

[6] Provas Kumar Roy, **Moumita Pradhan**, Tandra Pal, “Multi-Objective Hydro-Thermal Scheduling Problem Using Two Novel Optimization Techniques

,” International Journal of Swarm Intelligence Research, DOI: 10.4018/IJSIR.2021070101

[International Journal of Swarm Intelligence Research \(IJSIR\)](https://doi.org/10.4018/IJSIR.2021070101), 12(3)

**Conference:**

[1] Debnath, R., Kundu, B. C., **Pradhan, M.**, & Pradhan, D. (2011, February). Lossless secure transmission in bluetooth scatternet, considering device mobility. In *Wireless Communication*,

*Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology (Wireless VITAE), 2011 2nd International Conference on* (pp. 1-5). IEEE. 7  
<https://ieeexplore.ieee.org/abstract/document/5940840>  
DOI: [10.1109/WIRELESSVITAE.2011.5940840](https://doi.org/10.1109/WIRELESSVITAE.2011.5940840)

[2] **Pradhan, Moumita**, Dinesh Pradhan, and G. Bandyopadhyay. "Implementation of Fuzzy Approach to Improve Time Estimation [Case Study of a Thermal Power Plant Is Considered.]" *INTERNATIONAL CONFERENCE ON MODELING, OPTIMIZATION, AND COMPUTING (ICMOS 20110)*. Vol. 1298. No. 1. AIP Publishing, 2010.  
AIP Conference Proceedings **1298**, 433 (2010); <https://doi.org/10.1063/1.3516344>

#### **Book Chapter:**

[1] **Moumita Pradhan**, Provas Kumar Roy and Tandra Pal, "Evolutionary algorithms for economic load dispatch having multiple types of cost functions," Book Title: Handbook of Research on Natural Computing for Optimization Problems, Chapter-9 IGI Global Publication, 2017 [**Book Chapter**]

**Provas Kumar Roy (Jalpaiguri Government Engineering College, India), Moumita Pradhan (Dr. B. C. Roy Engineering College, India) and Tandra Pal (NIT Durgapur, India)**

Source Title: [Handbook of Research on Natural Computing for Optimization Problems](#)

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DOI: [10.4018/978-1-5225-0058-2.ch009](https://doi.org/10.4018/978-1-5225-0058-2.ch009)

[2] Multi-Objective Short-Term Hydro-Thermal Scheduling Using Meta-Heuristic Approaches  
**Moumita Pradhan (Dr. B. C. Roy Engineering College, India), [Provas Kumar Roy](#) (Kalyani Government Engineering College, India) and Tandra Pal (National Institute of Technology, Durgapur, India)**

Source Title: [Handbook of Research on Advancements of Swarm Intelligence Algorithms for Solving Real-World Problems](#)

Copyright: © 2020 | Pages: 33

DOI: [10.4018/978-1-7998-3222-5.ch016](https://doi.org/10.4018/978-1-7998-3222-5.ch016)

#### **Supervision of Ph.D/M.Tech/ B.Tech Projects:**

##### **Projects:**

1. Saptarshi Das (12000217016), Sangramjit Chakraborty (12000217017) and Biswajit Kar (12000217051), **Dr. Moumita Pradhan**, " BRAIN TUMOR SEGMENTATION USING MRI SCANS" , Year (2020 ), BTECH

**Invited Lectures: none**

#### **Participation in seminar/conference/symposium/workshop/discussion meeting**

[1] *Wireless Communication, Vehicular Technology, Information Theory and Aerospace & Electronic Systems Technology (Wireless VITAE), 2011 2nd International Conference on* (pp. 1-5). IEEE. 7, **Date of Conference:** 28 Feb.-3 March 2011

**Date Added to IEEE Xplore:** 05 July 2011

[2] *INTERNATIONAL CONFERENCE ON MODELING, OPTIMIZATION, AND COMPUTING (ICMOS 20110)*. Vol. 1298. No. 1. AIP Publishing, 2010.

AIP Conference Proceedings **1298**, 433 (2010); <https://doi.org/10.1063/1.3516344>

**Participation in faculty development programmes**

1. NPTEL AICTE FDP on Introduction to Machine Learning [Jan-April 2021 NPTEL ]
2. Deep Learning and AI applications [NIT Warangal and department of IT Vasavi college of engineering [21-30 June 2021]
3. AI using Python (14-09-2020 to 19-09-2020)/ Department of Computer Science & Technology of Dr. B. C. Roy Polytechnic in association with Brainovision Solutions India Pvt.Ltd. & National Youth Council of India
4. NPTEL AICTE FDP on Computer architecture. [Jul- Sep 2019 NPTEL ]
5. *Modern Applications of Artificial Intelligence and Machine Learning in Hardware and Software"* during 14-18 September, 2021.

**Participation in administrative committees (selected)**

1. NAAC departmental coordinator
2. NAAC core committee member
3. Spoken tutorial examiner (2021)
4. MAR departmental coordinator (before 2021)
5. R and D member (2020-2021(September))
6. Departmental anti ragging roving squad member (2018)