*DR. APARAJITA MUKHERJEE*



Assistant Professor

 Department of Electrical Engineering

 Meghnad Saha Institute of Technology

 Nazirabad, Utchepota, Kolkata-700150

***Mailing Address:*** C/O RAMKUMAR MUKHERJEE

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***Google Scholar id*** : https://scholar.google.com/citations?user=yh7\_VQYAAAAJ&hl=en&oi=ao

***linkedin* :** www.linkedin.com/in/dr-aparajita-mukherjee-8b17a850

**Education**

**Ph.D., EE (Power System Engineering), Indian Institute of Technology (Indian School of Mines), Dhanbad, 2018**

Concentrations: Optimal power flow, Soft computing techniques.

Dissertation: *Optimal Power Flow using Evolutionary Optimization Techniques*.

Dissertation Supervisor: Dr. Vivekananda Mukherjee,Department of Electrical Engineering, Indian Institute of Technology (Indian School of Mines), Dhanbad.

**M. Tech, EE (Power System Engineering), West Bengal University of Technology (Dr. B.C. Roy Engineering College, Durgapur), 2014, 9.09**

Concentrations: Transient stability, Optimal power flow.

Dissertation: *Transient Stability Constrained Optimal Power Flow using Evolutionary Algorithms*.

Dissertation Supervisor: Dr. Provas Roy, Department of Electrical Engineering, Kalyani Government Engineering College, West Bengal.

**B. Tech, Electrical Engineering, West Bengal University of Technology (Asansol Engineering College), 2011, 8.56**

**Higher Secondary Examination, West Bengal Council of Higher Secondary Education, 2007, 82.4%**

**Secondary Examination, West Bengal Board of Secondary Education, 2005, 82.62%**

**TEACHING EXPERIENCE**

**Assistant Professor, Meghnad Saha Institute of Technology, Kolkata, 2018 - Present**

Meghnad Saha Institute of Technology (Affiliated to MAKAUT).

Courses: Power System-I, II & III, Electrical & Electronics Measurements, Power Generation and Economics, Basic Electrical Engineering.

**Lecturer, Bengal College of Engineering and Technology for Women, 2011 - 2012**

Courses: Basic Electrical Engineering, Power system-I.

**PUBLICATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Status** | **In Journal** | **In Conference** | **In Book Chapter** | **Total** |
| Published1 | 10 | 2 | 2 | 14 |
| Communicated | 4 | - | - | 4 |

 1*Details are shown on Pages 4-5*

**GRANTS AND FELLOWSHIPS**

Ph.D. Scholarship in AICTE and Centrally Funded Technical Institutions under the M/o HRD (2014-2018).

**AWARDS AND HONORS**

* Student Scholar Award from WBSEDCL, 2007.
* Best Paper Presentation Award on ICONCE-2014.
* Selected as Potential Reviewer for *Applied Soft Computing*, *Swarm and Evolutionary Computation* and *Annals of Nuclear Energy* (Elsevier).

**PROFESSIONAL MEMBERSHIPS**

International Association of Engineers (IAENG) (membership number is: 259156).

**RELEVANT SKILLS**

* IOT proficiency.
* Software known:

MATLAB, PSPICE, MIPOWER, ETAP, Typesetting using LATEX.

* Skilled in MS Office.
* Time management skills.
* Knowledge of research methodologies.
* Writing and presenting reports.

**CONDUCTION OF TRAINING/WORKSHOP**

|  |  |
| --- | --- |
| **Name** | **Duration** |
| Two-week workshop, named “*Familiarization and Fabrication of Electrical and Electronics Components”* | 8th April, 2019 to 19th April, 2019 |
| 30-hour domain knowledge training program on “*Application of MATLAB in Electrical Engineering”* | 12th August to 29th August, 2020  |
| Two-week training program on “*How to Write a Research Article”* | 7th Sept., 2020 to 18th Sept., 2020 |
| 30-hour Training program on “*Familiarization of Different Electrical and Electronic Components”*  | 1st Sept. to 10th Sept., 2021  |
| Training program on “*Internet of Things*” | 15th Feb. to 27th Sept., 2022  |

**COURSES ATTENDED**

* Specialization on Energy Production, Distribution and Safety – certification done from Coursera.
* Electrical Distribution System Analysis - certification done from NPTEL.
* *SCILAB – An Open-Source Substitute for MATLAB* – certification done from Spoken Tutorial Project, IIT Bombay.
* *One day workshop on Arduino*- certification done from Teaching Learning Centre, ICT at IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India.
* One-week National Faculty Development Program and Online Training on LaTeX- certified from Spoken Tutorial Project, IIT Bombay.
* *The Bodhi Tree and SAFE Tools for Effective Online Teaching: A Hands-On Workshop”*- certification donefrom Teaching Learning Centre (ICT) of IIT Bombay, funded by the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT), MHRD, Govt. of India.

**Details of Paper Publication :**

***In Journals:***

1. Prasad, D., **Mukherjee, A.** and Mukherjee V. (2021) Temperature dependent optimal power flow using chaotic whale optimization algorithm. *Expert Syst.*, DOI:  *https://doi.org/10.1111/exsy.12685*.
2. Prasad, D., **Mukherjee, A.** and Mukherjee V. (2017) Application of chaotic krill herd algorithm for optimal power flow with direct current link placement problem. *Chaos, Soliton. Fractal.*, 103,pp. 90-100.
3. Prasad, D., **Mukherjee, A.**, Shankar, G. and Mukherjee V. (2017) Application of chaotic whale optimisation algorithm for transient stability constrained optimal power flow. *IET Sci. Measurem. Tech.*, 11 (8),pp. 1002-1013.
4. **Mukherjee, A.** and Mukherjee, V. (2016) Chaos embedded krill herd algorithm for optimal VAR dispatch problem of power system. *Int. J. Electr. Power Energy Syst.,* 82, pp. 37-48.
5. **Mukherjee, A.** and Mukherjee, V. (2016) Solution of optimal power flow with FACTS devices using a novel oppositional krill herd algorithm. *Int. J. Electr. Power Energy Syst.,* 78, pp. 700-714.
6. **Mukherjee, A.** and Mukherjee, V. (2016) Chaotic krill herd algorithm for optimal reactive power dispatch considering FACTS devices. *Appl. Soft Comput.,* 44, pp. 163-190.
7. **Mukherjee, A.**, Roy, P.K. and Mukherjee, V. (2016) Transient stability constrained optimal power flow using oppositional krill herd algorithm. *Int. J. Electr. Power Energy Syst.,* 83, pp. 283-297.
8. **Mukherjee, A.** and Mukherjee, V. (2015) Solution of optimal power flow using chaotic krill herd algorithm. *Chaos, Soliton. Fractal.*, 78,pp. 10-21.
9. **Mukherjee, A.** and Mukherjee, V. (2015) Solution of optimal reactive power dispatch by chaotic krill herd algorithm. *IET Gener. Transm. Distrib.*, 9 (15),pp. 2351-2362.
10. **Mukherjee, A.**, Paul, S. and Roy, P.K. (2015) Transient stability constrained optimal power flow using teaching learning based optimization. *Int. J. Energy Optimization Engin*. (IJEOE), 4 (1), pp. 18-35.

***Published Book Chapter:***

1. Mukherjee V., **Mukherjee, A.** and Prasad, D. (2018) Whale optimization algorithm with wavelet mutation for the solution of optimal power flow problem: WOA with wavelet mutation for the solution of OPF problem. *Chapter 23, Handbook of Research on Predictive Modeling and Optimization Methods in Science and Engineering, DOI: 10.4018/978-1-5225-4766-2.ch023.*
2. Prasad, D., **Mukherjee, A.** and Mukherjee V. (2017) Transient stability constrained optimal power flow using chaotic whale optimization algorithm. *Chapter 17, Handbook of Neural Computation, Elsevier, edited by Pijush Samui, Sanjiban Sekhar Roy, Valentina E. Balas*, *DOI: 10.1016/b978-0-12-811318-9.00017-x*.

***In Proceedings of Conferences:***

1. **Mukherjee, A.** and Mukherjee, V. A solution to optimal power flow with DC link placement problem using chaotic krill herd algorithm. Paper presented at the *International Conference Emerging Technological Trends (ICETT)*, October 21-22, 2016, Kollam, India.
2. **Mukherjee, A.** and Roy, P.K. Chemical Reaction Optimization for Transient Stability Constrained Optimal Power Flow. Paper presented at the *International Conference on Non-Conventional Energy (ICONCE-2014)*, January 16-17, 2014, Kalyani, India.

**PERSONAL DETAILS**

|  |  |
| --- | --- |
| Date of Birth | : 29.06.1989  |
| Marital Status | : Married |
| Sex: | : Female |
| Nationality: | : Indian |

**ACADEMIC REFEREE**

|  |  |
| --- | --- |
| 1. | **Dr. Vivekananda Mukherjee** |
|  | Associate Professor,  |
|  | Department of Electrical Engineering, IIT (ISM), Dhanbad |
|  | E-mail: vivek\_agamani@yahoo.com |
|  |  |
| 2. | **Prof. Dr. S. K. Bhattacharya** |
|  | Director,  |
|  | Academic Quality Assurance |
|  | Techno India Group |
|  | E-mail: skbhatta1957@gmail.com |

**DECLARATION**

I do hereby declare that the information furnished above is true to the best of my knowledge and belief.

Place: Kolkata 

Date: 13.9.2022 (*Aparajita Mukherjee*)