

Dr. Diress Tilahun

Antalem

Assistant Professor

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Year born: 1987

Nationality: Ethiopian



EDUCATIONAL PREPARATION

Ph.D.	Electrical Engineering (With Specialization in Electric Drives and Power Electronics) , Indian Institute of Technology Roorkee, India. Ph.D.
18/07/2018 – 31/07/2023	Thesis: “Investigation on DC/AC Microgrid Stability for Input Source Disturbance” Supervisor: Dr. Avik Bhattacharya.
M.Tech	Electrical Power Engineering (With Specialization in Power system and Automation) , Defence University College of Engineering, Ethiopia. Master Thesis: “Modelling Hybrid Solar Wind Power Generation for Rural Electrification” Supervisor: Dr. Mohan Mohante.
BED	Bachelor of Education Degree in Electrical and Electronics Technology , Adama University, Ethiopia. Final year Project on “PLC Based Library Control System” Supervisor: Dr. Dereje.
05/09/2006 – 18/07/2009	

PROFESSIONAL EXPERIENCE

31/07/2023 – Present	Assistant Professor , Head of Department of Electrical and Computer Engineering, Debre Tabor University, Ethiopia.
18/07/2018 – 31/07/2023	Research Scholar , Department of Electrical Engineering, Indian Institute of Technology Roorkee, India.

09/12/2016 – 15/07/2018	Vice Dean of Technology Faculty , Department of Electrical and Computer Engineering, Debre Tabor University, Ethiopia.
25/08/2016 – 15/07/2018	Lecturer , Department of Electrical and Computer Engineering, Debre Tabor University, Ethiopia.
09/01/2014 – 27/07/2016	Research Fellow , Department of Research and Development Center, Defence University College of Engineering, Ethiopia.
08/07/2011 – 08/01/2014	Researcher III , Department of Research and Development Center, Defence University College of Engineering, Ethiopia.
08/05/2010 – 07/07/2011	Researcher II , Department of Research and Development Center, Defence University College of Engineering, Ethiopia.
11/10/2009 – 07/05/2010	Electrical Technologist , Dejen Aviation Industry, Ethiopia.

AWARDS AND RECOGNITION

INTERNATIONAL

February 2024	Technology Faculty Research Committee , in Debre Tabor University, Ethiopia.
March 2023	Outstanding Contribution as a Reviewer , 2023 IEEE IAS Global conference on Emerging Technologies (GlobConET), London, UK.
September 2022	Technical Committee Member (TPC) in the IEEE IAS 5 th IEEE International Conference on Computing, Power and Communication Technologies (GUCON 2022), New Delhi, India.
September 2021	Teaching Assistant for the NPTEL Online Certification Course , DC Microgrid and Control System, Indian Institute of Technology Roorkee, India.
October 2020	Outstanding Contribution as a Reviewer , 2020 IEEE International conference on Computing, Power and Communication Technologies (GUCON 2020) financially sponsored by IEEE Industry Applications Society, USA.
October 2016	Innovative Curriculum, Pedagogy, and Basic English Language Skills , Debre Tabor University, Debre Tabor, Ethiopia.

ORGANIZATIONAL SKILLS

- Organizational skill such as, leadership, research, data analysis, problem solving, project management, time management, writing proficiency, teamwork, planning, monitoring, organizing, and decision making.

SOFTWARE SKILL

Sl. No.	Skill type	Skill Level (Basic/Intermediate/Proficient)	Total Experience (years)	Last Used (Year)
1	MATLAB	Proficient	9	2024
2	Power world	Proficient	4	2017
3	Programming	Intermediate	5	2023
4	PSPICE	Intermediate	4	2015
5	Multism	Intermediate	3	2015
6	Hommer	Proficient	5	2014
7	Lab view	Intermediate	4	2015

LANGUAGE SKILL

Sl. N o.	Langua ge	Speak (Basic/Intermediate/Profi cient)	Read (Basic/Intermediate/Profi cient)	Write (Basic/Intermediate/Profi cient)
1	English	Proficient	Proficient	Proficient
2	Amhara c	Proficient	Proficient	Proficient

RESEARCH INTERESTS

- DC/AC Microgrids, Power Electronics, Power Quality, Power Systems, Renewable Power Generations and Electric Drives.

RESEARCH PUBLICATIONS

Peer-Reviewed Journal Articles Published (N = 2)

J2. Diress Tilahun Antalem and Avik Bhattacharya “Multisource Grid-Connected DC/AC Hybrid Microgrid Decentralized Control Under Input Sources Variation” IETE Journal of Research, 2022, pp.1-77. <https://www.tandfonline.com/doi/full/10.1080/03772063.2022.2135618>

J1. Diress Tilahun Antalem and Avik Bhattacharya “A Decentralized Control Of Autonomous/Grid-Interactive Hybrid DC/AC Microgrid Using Two Parallel Interlinking Converters” Science and Technology for Energy Transition, 2022, pp.1-77. <https://doi.org/10.2516/stet/2022019>

Conference Proceedings (N = 1)

C1 Antalem, D.T. and Bhattacharya, A., 2020, October. Decentralized Control for Grid-interactive Hybrid dc/ac Ring Microgrid under Input Source Fluctuations. In 2020 IEEE International Conference on Computing, Power and Communication Technologies (GUCON), IEEE, (pp. 383-388).
<https://ieeexplore.ieee.org/document/9231248>

REFERENCES

3. Dr. Abebaw Alem, Assistant Professor, Department of Information Technology, Debre Tabor University, Ethiopia. Phone number: +251910128472 and E-mail: alemabebaw0@gmail.com
2. Dr. Biks Alebachew, Assistant Professor, Department of Electrical and computer Engineering, Debre Tabor University, Ethiopia. Phone number: +251 910 41 01 85 and E-mail: bik0197@gmail.com
1. Dr. Avik Bhattacharya, Associate Professor, Department of Electrical Engineering, Indian Institute of Technology Roorkee. Phone number: +919674532047 and E-mail: avik.iitkgp@gmail.com