



DR. HAILAY ABEBE

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Education

FEB 2017 -
JUN 2021

Ph.D.

National Taiwan University of Science and Technology(NTUST)

Dissertation: *Formation and Cooperative Adaptive Tracking Designs of Nonlinear Dynamic Multi-agent Systems and Their Applications*

SEP 2009 -
SEP 2011

M.Sc.

Addis Ababa University

Thesis: *Carbon Nanotube Field Effect Transistors-based Ternary Logic Gates and Combinational Circuits Design*

SEP 2005 –
JUL 2009

B.Sc.

Mekelle University

Title of B.Sc. Degree Final year Project: *Eye movement communication for physically disabled persons*

Teaching Experience

AUG 2023-
PRESENT

Visiting Assistant Professor

JSU, College of Health Sciences, Informatics and Analytics Programs(PHIT)

- Teach weekly lectures in courses on Data Analytics and Public Health Informatics
- Make continuous update on the course syllabi of the PHIT program

AUG 2011-
FEB 2017

Lecturer

Adigrat University, Department of Electrical Engineering

- Taught weekly lectures in courses on Electrical and Computer Engineering
- Designed course curriculum, organized class lectures, and set deadlines for projects.

Conferences

MAY 2022

2022 International Conference on System Science and Engineering (ICSSE), National Chung Hsing University, Taichung, Taiwan

Publications

1. C.-L. Hwang and **H. B. Abebe**, "Generalized and Heterogeneous Nonlinear Dynamic Multiagent Systems Using Online RNN-Based Finite-Time Formation Tracking Control and Application to Transportation Systems," *IEEE Transactions on Intelligent Transportation Systems*, vol. 23, no. 8, pp. 13708-13720, Aug. 2022.
2. **H. B. Abebe**, C.-L. Hwang, B.-S. Chen, F. Wu, and C. Jan, "Recurrent neural network with fractional learning-based fixed-time formation tracking constrained control for a group of quadrotors," *IEEE Access*, vol. 9, pp. 81399-81411, May 2021.
3. C.-L. Hwang, **H. B. Abebe**, B. S. Chen, and F. Wu, "Fuzzy adaptive finite-time formation tracking saturated control of nonlinear multiagent systems and its application," *IEEE Access*, vol. 8, pp. 105507-105520, Jun. 2020.
4. **H. B. Abebe** and C.-L. Hwang, "RGB-D face recognition using LBP with suitable feature dimension of depth image," *IET Cyber-Phys. Syst., Theory Appl.*, vol. 4, no. 3, pp. 189–197, Oct. 2019.
5. **H. B. Abebe** and C. -L. Hwang, "A Finite-Time Trajectory Tracking Control for a Hexa-rotor with Uncertainty and Actuator Fault," *2022 International Conference on System Science and Engineering (ICSSE)*, 2022, pp. 094-099.

Research Experience

SEP 2021-
JUL 2022

Postdoctoral Researcher

National Taiwan University of Science and Technology (NTUST)

- Wrote the implementation code, conducted simulation, wrote and published articles

Awards & Honors

DEC 2020

Living Grants for International Graduate Students from CTCL, Taipei, Taiwan

Language & Additional Skills

Tigriyna – Mother Tongue Language
Amharic –Fluent

References

Dr. Girmay Berhie

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MS 39213

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Professor Chih-Lyang Hwang

Professor, National Taiwan University of
Science and Technology

E-mail: clhwang@mail.ntust.edu.tw

Dr. Teklemariam Tesfay

Cybersecurity Engineer, NASA Jet Propulsion Laboratory,
Pasadena, CA 91109

E-mail: tesfay@jpl.nasa.gov

Dr. Alem H. Fitwi

SW & Algorithm Engineer for RL Manufacturing Test &
Automation @Meta, 994 Helen Ave Sunnyvale, CA 94086,

E-mail: fitwiale2022@fb.com
