



Dr.
HARSHAVARDHANA
REDDY K

ASSOCIATE PROFESSOR
DEPARTMENT OF ECE

PROFILE

- Dedicated & Committed Faculty in Department of ECE, with 6 years of experience in teaching UG & PG Students.
- Subjects Handled: Network, Analysis, Power Electronics, ELSA, S & T, Control Systems.
- Skills: MATLAB, PSPICE, PLC, LATEX.

CONTACT & LINKS

Email ID:
kharshahari@gmail.com
kharshavardhana.ece@eastpoint.ac.in

Linkedin
<https://www.linkedin.com/in/kothakota-harshavardhana-reddy-56b0bb51/>

EDUCATIONAL QUALIFICATIONS

B.E(EIE)-JNTU A- 2011
M.Tech (Control Systems)- JNTU A -2014
Ph.D – Vellore Institute of Technology, Vellore-2018

PROFESSIONAL EXPERIENCE

Teaching Experience: 06 years
Industry Experience: 01
Total: 7 years

INSTITUTION/DEPARTMENT RESPONSIBILITIES

- Part of Departmental NBA Accreditation Team
- Internship Coordinator
- Innovation Cell Coordinator
- FDP Organizing Coordinator
- CARS Coordinator

RESEARCH AREA/SPECIALISATION/ RESEARCH GRANTS/ PROJECTS IF ANY

Specialization: Control Systems, Artificial Intelligence, Machine Learning.
Research Interest: Optimal Controllers, Time Delay Processes, AI, ML & Process Control & Automation.
Proposals Submitted:
1. A Research Titled Proposed “Implementation of Optimal PI/PID Controllers for Green House Climatic Control” Submitted to VTU Research Grants Scheme on 26th March- 2021 for amount of 23 lakhs Rs/- as a Principal Investigator.
2. A Research Titled Proposed “ Design and Develop an Optimized and Efficient Method for secured and Authenticated self-organizing Wireless Sensor Networking Model for Target Tracking” Submitted to (K-FIST L2) KARNATAKA FUND FOR INFRASTRUCTURE STENGTHENING IN SCIENCE & TECHNOLOGY (VGST) on 24 Feb- 2021 for amount 40,00,000 Rs/- as Co- Principal Investigator.

ACHIEVEMENTS/ACCOMPLISHMENTS/AWARDS/RECOGNITION/GUEST LECTURES DELIVERED/WORKSHOPS ATTENDED

- Research fellowship is awarded for pursuing Ph.D degree by the School of Electrical Engineering, Vellore Institute of Technology, Vellore.
- Received a Research Award in 2016 for contribution to research through publication in peer reviewed journals at VIT University.
- Attended AICTE sponsored Six days Staff Technical Training Program on “ASIC Chip Design and Verification Course” , 3rd – 8th Feb 2021, CIT, Bengaluru.
- Attended AICTE-ATAL sponsored Five day FDP Programme on “Instrumentation in Telemedicine” , 21st -25th Sept 2020, Sri Krishna College of Engineering and Technology, Coimbatore, TN, India.
- Attended AICTE sponsored Six Day STTP Program on “Electrical Vehicle: Evolution, Integration and Challenges Series-01”, 19th -24th Oct 2020, Srikrishna College of Engineering and Technology, Coimbatore, TN, India.
- Attended One week Training Programme on “ An Overview of Teaching Techniques in Engineering Statistics and Linear Algebra”, 6th -10th Jan 2020, VTU, Karnataka.
- Attended Faculty Development Programme on “Mechatronics and Robotics”, August 18th 2018, Lovely Professional University.
- “Power Quality in Deregulated Power System with MATLAB Applications”, June 06th -11th 2016, NIT Hamirpur, Himachal Pradesh.
- “Soft Computing and Engineering Optimization Using MATLAB”, April 24th 2015, VIT University, Vellore, India.
- “Recent Developments of Wind Energy in India”, October 30th - 31st October 2015, VIT University, Vellore, India.

PUBLICATIONS/PATENTS/BOOKS

REDDY, Harshavardhana, and Sachin SHARMA. "Implementation of Adaptive Neuro Fuzzy Controller for Fuel Cell Based Electric Vehicles." Gazi University Journal of Science: 34.1(2021): 112-126. (Thomson Reuters and Scopus indexed, ESCI-Web of Science).

Reddy, K. Harshavardhana, Prabhu Ramanathan, “A New feedback gain matrix based LQR PI Controller for Integrator Time Delay process”, GAZI UNIVERSITY JOURNAL OF SCIENCE. 30.4 (2017): 232-251. (Thomson Reuters and Scopus indexed, ESCI-Web of Science).

Reddy, K. Harshavardhana, Sudha Ramasamy, and Prabhu Ramanathan. “Hybrid Adaptive Neuro Fuzzy Based Speed Controller for Brushless DC Motor.” GAZI UNIVERSITY JOURNAL OF SCIENCE 30.1 (2017): 93-110. (Thomson Reuters and Scopus indexed, ESCI-Web of Science).

Reddy, K. H., Ramanathan, P., Ramasamy, S., & Sanjeevikumar, P. “LQR PI Controller Design for First-Order Time-Delay Systems”. In ADVANCES IN SYSTEMS, CONTROL AND AUTOMATION. 2018, (pp. 405-413). Springer, Singapore. DOI:10.1007/978-981-10-4762-6_39. (Springer, Scopus indexed).

K.Harshavardhana Reddy, Sudha Ramasamy, Prabhu Ramanathan, “Dahlin’s Control Technique to Controlling the Temperature in a

ASSOCIATION WITH PROFESSIONAL BODIES

- Life Memberships of International Association of Engineers (IAENG).
- Reviewer Member for ISA Transactions Journal, Elsevier.
- Reviewer Member for International Journal of Fuzzy Systems Journal, Springer.
- Reviewer Member for Gazi University Journal of Science Journal Deripark, Turkey.

Glycerin Bleaching Process". INTERNATIONAL JOURNAL OF APPLIED ENGINEERING RESEARCH. Volume 10.5 (2015): 13465-13472. (Scopus Indexed).

Reddy, K.H., Ramanathan, P. and Ramasamy, S., 2016, November. LQR based PI plus PD controller to control the Non-linear process. In GREEN ENGINEERING AND TECHNOLOGIES (IC-GET), 2016 Online International Conference on (pp. 1-4). IEEE. DOI: 10.1109/GET.2016.7916736. (Scopus Indexed).

K.Harshavardhana Reddy, Sachin Sharma, Sivadasan M, Yogesh G S, have presented the paper on "Implementation of Adaptive Neuro Fuzzy Controller for Time Delay Process" Conference ICMTCI-4.O Organized by EPCET, Bangalore dated on 18 -19 September 2020. (ISBN: 978-81-947738-3-2).

Sachin Sharma, **K. Harshavardhana Reddy**, Sivadasan M, Yogesh G S, have presented the paper on" An Overview of Vehicular Ad Hoc Networks with its Applications", Conference ICMTCI-4.O, Organized by EPCET, Bangalore dated on 18 -19 September 2020. (ISBN: 978-81-947738-3-2).

PROFESSIONAL COURSES COMPLETED/ONGOING

- Undergoing Online Certificate Training course on "Artificial Intelligence and Machine Learning" by DIAT-DRDO, India.
- Undergoing course Online on "Professional Certificate on Data Analytics by Google.
- Undergoing Online Certificate Training course on "Foundations of Data Science" by Guvi-IIT Madras, India."