

Dr. Sathishkumar Hari, Ph.D.

Assistant Professor

Email: sathishkumarhari@ternaengg.ac.in

Address for Correspondence:

A-102, Plot-104, Olive estates, Sector 27, Opp.to Fire station, Nerul East,

Navi Mumbai-400706, Thane District.



Professional Qualification:

- **Ph.D. in Electronics, 2019**
PES college of engineering, Mandya, Karnataka (University of Mysore)
- **Master of Engineering (Power electronics and drives), 2010**
Kumaraguru college of technology, Coimbatore, Tamilnadu (Anna university)
- **Bachelor of Engineering (Electrical and Electronics Engineering), 2007**
Sona college of technology, Salem, Tamilnadu (Anna university)
- **Diploma in Electrical and Electronics Engineering, 2004**
The Salem Polytechnic college, Salem, Tamilnadu

Short Biodata:

Dr.Sathishkumar Hari is currently an Assistant Professor in the Department of Electronics and Telecommunication Engineering at Terna Engineering College, Nerul, Navi Mumbai. He has over 14.1 years of teaching and research experience. He earned his Doctorate (Ph.D.) in Electronics from the University of Mysore in October 2019. His major research interests include control systems, power electronics and drives, adaptive control, fuzzy logic, and neural network controllers. He received his Bachelor's degree in Electrical and Electronics Engineering from Anna University in April 2007 and a Master's degree in Power Electronics and Drives from Anna University in April 2010. He completed his Diploma in Electrical and Electronics Engineering from The Salem Polytechnic College, Salem, in April 2004. He has published 10 articles in peer-reviewed international journals and presented 5 papers at international conferences.

He has delivered lectures at various colleges and conducted seminars. Additionally, he has received a patent from the Intellectual Property Rights authority governed by the Australian Government.

Patents/ Products/ Consultancy: 01 Patent

Products Developed: No

Patents:

Title:Artificial Intelligence Based Cooling System for Managing the Energy Efficiency

Authors: Dr Subramani T,Dr Bhanu pratap pulla ,Dr Senbagavalli M, MRS Swetha Shekarappa G, Dr.Sathish Kumar H, Mr.Ramakrishna , Dr. Sundar Prakash Balaji M, Dr Ratansingh Atkar, Dr A. Haiter Lenin, Dr.Suresh Babu B.

Patent number: 2021100960

Patented on: 12th May 2021

Patent authority: Intellectual property rights

governed by Australian Government.

Consultancy Projects: No

Reviewer:

- Australian Journal of Electrical and Electronics Engineering

Major Subjects:

- Signals and systems
- Power electronics
- Utilization of electrical power
- Industrial drives and applications
- Facts
- Electrical machines-I
- Electrical machines-II
- Power electronic system control
- Electrical technology
- Basic electrical engineering
- VISI circuits and design
- Electrical estimation design and costing

Citation Analysis:

69 citations (h-index 4 and i10-index 4) in google scholar

https://scholar.google.com/citations?hl=en&user=bhigA3sAAAAJ&view_op=list_works&authuser=1&user=bhigA3sAAAAJ

List of Publications:

Journal Publications:

1. Sathishkumar H., and S.S.Parthasarathy, "Analysis of Speed controller for three phase induction motor in 125/60 TPH Aggregate crushing Sand Plant," International Journal of Engineering And Computer Science, Vol. 5, issue. 12, 2016 (ISSN: 2319-7242).
2. Sathishkumar H., and S.S.Parthasarathy, "A novel fuzzy logic controller for vector controlled induction motor drive," Energy Procedia (Elsevier), Vol.138, pp. 686-691, 2017 (ISSN: 1876-6102).
3. Sathishkumar H., and S.S.Parthasarathy, "A novel neural network intelligent controller for vector controlled induction motor drive," Energy Procedia (Elsevier), Vol.138, pp. 692- 697, 2017 (ISSN: 1876-6102).
4. Sathishkumar H., and S. S.Parthasarathy, "A novel neuro-fuzzy controller for vector controlled induction motor drive," Energy Procedia (Elsevier), Vol.138, pp. 698-703, 2017 (ISSN: 1876-6102).
5. Sathishkumar H., and S.S.Parthasarathy, "Study of Cable Manufacturing Industry with Special Reference to Ravicab Cables Private Limited at Bidadi, Ramanagara District, Karnataka, India," AJES, Vol.7, issue.2, 2018.
6. Sathishkumar H., and S.S.Parthasarathy, "Mathematical Modeling and Simulation of three Phase Induction Motor for Industries with Accurate Parameter Requirements," i-manager's Journal on Instrumentation and Control Engineering, Vol.6, issue. 3, pp.12-21, 2018 (ISSN Print: 2321-113X).
7. Sathishkumar H., and S.S.Parthasarathy, "Performance Analysis of Speed Controller for 3hp and 150hp Three Phase Induction Motors Being Used in Cable Industry Applications," AJES, Vol.8, issue.1, pp.7-14, 2019, 2249 – 6297.
8. Sathishkumar H., and S.S.Parthasarathy, "Identification of Robust Controller for 150hp 3 Phase Induction Motor", Asian Journal of Electrical Sciences, ISSN: 2249-6297, Vol. 8, No. S1, 2019, pp. 33-38.
9. Mohan, Janma, and H. Sathish Kumar. "A DC-DC Converter with Ripple Current Cancellation Based On Duty Cycle Selection", International Journal of Modern Engineering Research , ISSN: 2249–6645, Vol. 4, Issue. 3, March 2014, pp.84-95.
10. Thulasi, V. S., and H. Sathish Kumar, Single-input double output high efficient boost dc-dc converter. International Journal of Modern Engineering Research, Vol.4, Issue.3, March 2014, pp. 1-14.

Conferences:

1. Sivakannan Subramani, Sathishkumar H, “Enhanced Short-Term Photo Voltaic Power Prediction Using a Hybrid Improved Whale Optimization Algorithm with XGBoost”, SPECON-2024, April 2nd to 4th – 2024, FISAT, Ernakulam, Kerala, India
2. Sathishkumar H., and MV Sarin, “Detailed study of 125/60 TPH Aggregate crushing Sand Plant using plethora of machinery”, Fifth International conference on Design Innovations for 3Cs Compute-Communicate-Control on 11th and 12th June 2021, MVJ college of engineering, Bangalore.
3. Optimal selection of materials for high performance of carbon-aerogel supercapacitors, AIP Conference proceedings, 2nd International conference on Advanced Research in Mechanical Engineering, 29th and 30th April 2021, MVJ college of engineering, Bangalore.
4. Sathishkumar H., and S.S.Parthasarathy, "Space vector pulse width modulation for DC-AC converter", *IEEE sponsored International Conference on Science, Technology, Engineering and Management (ICONSTEM - 2016)*, Chennai, 30th-31st March 2016.
5. Sathishkumar H., and S.S.Parthasarathy, "Comparative performance analysis of PID and Fuzzy logic controllers for 150hp three phase induction motor", ICERECT - 2018, August 23rd -24th - 2018, PESCE, Mandya, India

STTP & Workshops Attended

1. Attended a two-week ISTE workshop on 'Control Systems' at FISAT, Kerala, from 2nd to 12th December 2014.
2. Attended the 'Entrepreneurship Awareness Camp' at MVJCE, Bangalore, from 18th to 19th March 2019.
3. Attended a two-week ISTE workshop on 'Signals and Systems' at FISAT, Kerala, from 2nd to 12th January 2014.
4. Participated in the two-day workshop on 'Power Quality Issues in Power Systems' at Sri Krishna College of Engineering, Coimbatore, from 19th to 20th February 2009.
5. Participated in the national-level seminar on 'Application of Soft Computing Techniques to Renewable Energy' at Vivekananda Institute of Engineering and Technology for Women, from 17th to 18th December 2012.

Online Webinars Attended:

1. Attended an online training programme on 'Effective Online Teaching, Assessment, and Evaluation' at MVJCE, Bangalore, from 17th August 2020 to 22nd August 2020.

Research and Scholarly Contributions:

- **Ph.D. Research:** A novel robust controller for vector controlled induction motor drive
- **M.E. Research:** Interleaved DC-DC converter for low power applications.

Software Tools:

1. MATLAB
2. JAVA
3. BDD CUCUMBER
4. TESTNG
5. JIRA

Experience:

Total experience: 14 years and 1 month

- 5 months of University of Mumbai-approved teaching experience at Terna Engineering College, Nerul, Navi Mumbai.
14th October 2024 – Present: Assistant Professor.
- 8 years and 3 months at VTU-affiliated MVJ College of Engineering, Bangalore, Karnataka.
15th July 2016 – 5th October 2024: Assistant Professor.
- 8 months at Anna University-affiliated Mohamed Sathak A.J. College of Engineering, Chennai, Tamil Nadu.
21st August 2015 – 28th April 2016: Assistant Professor.
- 1 year and 11 months at M.G. University-affiliated Federal Institute of Science and Technology, Ernakulam (Dt), Kerala.
1st July 2013 – 29th May 2015: Assistant Professor.
- 1 year and 10 months at the Anna University-affiliated Vivekananda Institute of Engineering and Technology for Women, Namakkal (Dt), Tamil Nadu. 5th August 2011 – 30th April 2013: Assistant Professor.
- 1 year at Anna University-affiliated Muthayammal Engineering College, Namakkal (Dt), Tamil Nadu.
7th June 2010 – 31st May 2011: Assistant Professor.

Responsibilities Handled:

- Working as simulation lab in charge at Terna engineering college, Nerul, Navi Mumbai
- Working as class advisor for Second year-A (FH-2025) division at Terna engineering college, Nerul, Navi Mumbai
- Working as a UG project panel member at Terna Engineering College, Nerul, Navi Mumbai.
- Worked as industrial visit Coordinator at MVJ College of engineering, Bangalore.
- Worked as Exam management system (EMS) coordinator at MVJ College of engineering, Bangalore.
- Worked as High voltage lab in charge at MVJ College of engineering, Bangalore.
- Worked as Electrical machines lab in charge at MVJ College of engineering, Bangalore.
- Worked as UG project guide at MVJ College of engineering, Bangalore.
- Worked as UG and PG project guide at Federal Institute of Science And Technology Ernakulam (Dt), Kerala.
- Worked as UG and PG project guide at Vivekananda Institute of Engineering and Technology for Women Namakkal (Dt), Tamilnadu
- Worked as seminar coordinator at Vivekananda Institute of Engineering and Technology for Women Namakkal (Dt), Tamilnadu
- Worked as UG project guide at Muthayammal Engineering College Namakkal (Dt), Tamilnadu.

Declaration

I hereby declare that the foregoing information are correct and complete to the best of my knowledge.

Dr. Sathishkumar Hari

Place: Navi Mumbai