Faculty Profile

Name: **H SUDHEER**
Designation: Assistant Professor, ECE

Teaching Areas: Electrical Science-I & II, Control Systems Electrical Machi

Research Interests: Application of fuzzy logic to control AC drives, Improvements in Direct Torque Flux Control using Artificial Intelligence methods

Education:

(PhD) ,JNTU Anantapur
M-Tech (Power Electronics) from JNTUH,2008
B.Tech (EEE) from JNTUH,2003 PGDIM from IGNOU university,2011

Professional Experience: (Total: 13 years)

1. 2011-Till date: Assistant Professor, Faculty of Science & Technology, IFHE (Deemed University), Hyderabad.
2. 2010-2011: Assistant Professor, Krishna Murthy Institute of Technology and Engineering, Ghatkesar.
3. 2005-2010: Assistant Professor, Aurora's Engineering College, Bhongir.
4. 2003-2005: Assistant Professor, Naranyanpet Institute of Tech. and Science, Narayanpet.

Research / Selected Publications:

1. Hanumanthakari, Sudheer, S. F. Kodad, and Sarvesh Botlaguduru. "Sensorless Direct Torque Control of Induction Motor Using AI Based Duty Ratio Controllers." International Review on Modelling and Simulations (IREMOS) 9.5 (2016): 339-347.
2. Sudheer, H., S. F. Kodad, and B. Sarvesh. "Improvements in direct torque control of induction motor for wide range of speed operation using fuzzy logic." Journal of Electrical Systems and Information Technology (2017).
3. Sudheer H, Sarvesh B and Kodad SF "Improved Fuzzy Logic based DTC of Induction machine for wide range of speed control using AI based controllers" Journal of Electrical Systems, 12-2(2016).301-314 France. (SCI Journal).

4. Sudheer H, Sarvesh B and Kodad SF "Direct Torque Control of Induction machine using Fuzzy logic controller" Sudheer H, Sarvesh B and Kodad SF accepted for publication in Atti della Fondazione Giorgio Ronchi, Italy.(reputed Journal).
5. Sudheer H, Sarvesh B and Kodad SF "Torque ripple reduction in direct torque control of induction motor using fuzzy logic based duty ration controller" published in "International Journal of Electronic Engineering Research"ISSN 0975 - 6450 Volume 3 Number 1 (2011) pp. 1–12.

Research Papers published in National Journals

1. Sudheer H, Sarvesh B and Kodad SF "Fuzzy Direct Torque and Flux Control of Induction Motor Using Fuzzy Speed controller" published in "i-manager's Journal on Electrical Engineering" Volume No. 6 Issue No. 4, Mar-Jun 2013.
2. Sudheer H, Sarvesh B and Kodad SF "Direct Torque and Flux Control of an Induction Motor Using MRAS Technique" published in IUP Journal of electrical and electronics engineering, 2016.

Research Papers published in International Conferences

1. Sudheer H, Sarvesh B and Kodad SF "Sensorless Direct Torque Control of Induction motor using Neural Networks based duty ratio Controller" presented in 1st Spinger International Conferences on Emerging Trends and Advances in Electrical Engineering and Renewable Energy (ETAEERE-2016) 17-18th December 2016 at SMIT, Sikkim, India.
2. "Direct Torque and Flux control of Induction Machine using Fuzzy Logic controller" Sudheer H, Sarvesh B and Kodad SF presented in IEEE International conference on Advances in Electrical, Electronics, Information, Communication & Bio-informatics, 27th -28th February 2016.
3. "Optimal Duty Ratio controller for Improved DTFC of Induction Motor using Fuzzy Logic" Sudheer H, Sarvesh B and Kodad SF presented in 2016 IEEE Students' Conference on Electrical, Electronics and Computer Science at MANIT Bhopal.