Dr. MD QUTUBUDDIN

B.Tech, M.Tech, Ph.D (JNTU)

Assistant Professor, Dept. of EEE qutubuddin30@gmail.com

Educational Qualifications:

- Received B.Tech in Electrical and Electronics Engineering, JNTU Hyderabad, 2008.
- **4** M.Tech in Power Electronics from JNTU Hyderabad, 2012
- Ph.D (Full-time) in Electrical and Electronics Engineering, JNTU Hyderabad, 2019.

Total year of Experience: 7 years Industrial Experience:

Worked as Project Assistant in HBL Power System Ltd, Hyderabad from Oct, 2010 to Oct, 2011

Teaching Experience:

- Worked as Assistant Professor in Hi-Point College of Engineering, Hyderabad from Jan, 2012 to March 2013.
- Working as Assistant Professor, Dept. of EEE, TKR college of Engineering and Technology from Feb, 2019 to till date.

Research Experience:

- Worked as Research Associate, in JNTU Hyderabad from March, 2013 to Oct, 2016.
- Worked as Senior Research Fellow in DST Sponsored Project, "Design and development of Brain inspired intelligent controller to solve non-linear systems" in JNTU Hyderabad, from Nov 2016 to Jan 2019

Research Papers Published in Journals:

- ✤ No. of International Journals : 04
- ✤ No. of National Journals : 01

Technical papers Published/Presented in Conferences:

- ✤ No. of International conferences : 07
- ✤ No. of National Conferences : 02

Areas of Interest:

Artificial Intelligence, Bio-inspired controllers, Electrical Drives, Power Electronics and Model predictive controllers.



PUBLICATIONS

- MD Qutubuddin and NarriYadaiah, "Modeling and Implementation of Brain emotional controller for Permanent Magnet Synchronous Motor drive", *Engg. Applications of Artificial of Intelligence System (The International Journal of Intelligent Real-Time Automation*), Vol. 60, Issue C, April 2017, pp. 193-203. (Elsevier Publication, Impact factor:2.368).
- MD Qutubuddin and NarriYadaiah, "A New Intelligent Adaptive Mechanism for Sensorless Control of Permanent Magnet Synchronous Motor Drive", *Biologically* inspired Cognitive Architectures. Vol.24, April 2018, pp. 47-58. (Elsevier Publication, Impact factor:1.748).
- 3. R Bhaskarala, M Azam, M Krishna, M Qutubuddin, "Implementation of State Estimation Technique for a Sensorless PMSM Drive" IUP Journal of Electrical & Electronics Engineering 9 (2), 2016.
- 4. MD Qutubuddin, Raju S. Bapi and NarriYadaiah," Brain Affective System Inspired Control Architecture: An Application to Non-linear System", *Mechanical Systems and Signal Processing*(under review).
- 5. MD Qutubuddin and NarriYadaiah, "Neurobiological Inspired Sensorless Adaptive Mechanism for Permanent Magnet Synchronous Motor Drive" *Journal of Electrical Engineering*, Springer **(under review)**.
- 6. MD Qutubuddin and NarriYadaiah, "A new approach for modeling of Cerebellum based controller: An application to nonlinear systems", *IFAC Journal of Control Engineering and Practice.* (Under Review).
- 7. MD Qutubuddin, JayramDesik, Bapi S Raju, and NarriYadaiah, "Design and implementation of Multi Modular Joint (MMJ)- Brain Controller for nonlinear systems", *Engineering applications of artificial intelligence* (**Under Review**).
- 8. MdQutubudddin and NarriYadaiah, "Model Predictive Controller for Permanent Magnet Synchronous Motor Drive: Analysis of Speed controllers", *Australian Journal of Electrical and Computer Engineering*, **(Under Preparation)**.

PRESENTATIONS

- 1. MD Qutubuddin, S BapiRaju and NarriYadaiah, "Design and Development of Emotional controller for Permanent Magnet Synchronous Machine (PMSM)" 38th National Systems Conference (NSC), Hyderabad, Nov 2014, pp.154-159.
- 2. MD Qutubuddin and NarriYadaiah, "Performance analysis of Emotional controller for Permanent Magnet Synchronous Motor Drive" IEEE International Conference on Smart Technologies and Management for Computing, Communication, Controls, Energy and Materials (ICSTM), India, May 2015, pp: 613-620.
- 3. MD Qutubuddin and NarriYadaiah, "Cognitive Model Intelligent controller for PMSM drive" International conference on Cognition, Brain and Computation, IIT Gandhinagar India, Dec 2015.
- 4. MD Qutubuddin and NarriYadaiah, "Cognitive Modeled Intelligent speed controller for Electrical Drive", National conference on Recent Trends in Power Engineering, IIT Madras, Dec 2015.
- 5. MD Qutubuddin, S BapiRaju and NarriYadaiah, "Performance analysis of Brain Emotional Controller for Rotary Inverted Pendulum System" 14th IEEE India Council International Conference (INDICON-2017), IIT Roorkee, Dec 2017.
- 6. Md. Qutubuddin "Implementation of State Estimation Technique for a Sensorless PMSM Drive" 1st National Conference on Recent advancement in electronics at ICFAI University, Hyderabad, during January 22-23, 2016.

- 7. MdQutubudddin, Azeem, Rajesh and NarriYadaiah, "Model Predictive Controller for Permanent Magnet Synchronous Motor Drive: Analysis of Speed controllers" 4th IEEE Hydcon, Sep 2020.
- 8. MD Qutubuddin, Bhargavi and NarriYadaiah, "Performance analysis of Cerebellum controller for Non-linear systems" 17th IEEE India Council International Conference (INDICON-2020) Dec, 2020.