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Education

Ph.D. in Electrical & Electronics Engineering
July 2010 - January 2019

Sri Venkateswara University, Tirupati, AP, India
Supervisor: Prof.G.V.Marutheswar
Dissertation: Optimization of Torque and Flux Ripple for Three Phase Asynchronous Drive with Hybrid Algorithms

M.E. in Power Electronics and Industrial Drives
Aug 2004 - June 2006

Satyabama Institute of Science and Technology, Chennai, India

B.Tech. in Electrical & Electronics Engineering
July 2000 - June 2004

JNT University, Hyderabad, India

Key Journal and Conference Publications

1. W.V.Jahnavi, **J.N.Chandra Sekhar**, "**Enhanced FOPID Controller Based Cascaded Inverter for Grid-Connected Photovoltaic System**", **Electric Power Components and Systems - Taylor and Francis Ltd**, May 2024. (Q3 - SCIE – Web of Science Indexed) https://doi.org/10.1080/15325008.2024.2328231

2. N.Neelima, **J.N.Chandra Sekhar**, Lokaiah Pullagura, P.S.G.Aruna Sri, Dilip Kumar J.B.S., S.D.Pande, "**Development in intelligent autonomous agents for the high-level cognitive functions like reasoning, planning, learning and abstraction**" Journal of Interdisciplinary Mathematics – **Taylor and Francis Ltd** – Taru Publications, Vol.26, Issue No.3, 2023, pp.301-310. (Q1 - ESCI - Web of Science Indexed) https://doi.org/10.47974/JIM-1661.

3. N.Praveena, K.Madhavi, **J.N.Chandra Sekhar**, G.Kumari, D.Bullarao, M.Venkatrao, J.Kumarraja, "**Deep Learning based Multilingual Speech Synthesis using Multi Feature Fusion Methods**", **ACM Transactions on Asian and Low Resource Language Information Processing**, September 2023. (Q2 - SCIE – Web of Science Indexed). https://doi.org/10.1145/3618110

4. B.Lalitha, V.Madhurima, C.Nandhakrishna, J.Satishbabu, **J.N.Chandra Sekhar**, P.Venkat Reddy, "**Data Augmentation based Cross-lingual multi-speaker TTS using DL with sentiment analysis**", **ACM Transactions on Asian and Low Resource Language Information Processing**, October 2023. (Q2 - SCIE – Web of Science Indexed). https://doi.org/10.1145/3628428

5. **Dr.J.N.Chandra Sekhar**, Bulla Rao Domathoti, Prof.Dr.Ernesto DR Santibanez Gonzalez, "**Prediction of Battery Remaining Useful Life Using Machine Learning Algorithms**", **MDPI – Sustainability**, **2023**, October 2023.
(Q2 - SCIE – Web of Science Indexed). https://doi.org/10.3390/su152115283

6. G. Pandu Ranga Reddy, **J. N. Chandra Sekhar**, B. Naresh and M. Vijaya Kumar, "**Comparative Analysis of Flying Capacitor and H-Bridge Multilevel Matrix Converters for DFIG Based Wind Energy Conversion System**", **Springer Lecture Notes in Electrical Engineering** – 2020 (Elsevier – SCOPUS Indexed).

7. L.M.Mohan Krishna, **J.N.Chandra Sekhar**, M.Naresh and P.Samuel, "**Performance Analysis of Grid Integrated Photo-Voltaic Systems using Marx Multilevel Inverter in Different Environmental Conditions**", **U.P.B.Science Bulletin**, Series C, Vol.80, Issue 2, pp.217-230, June 2018 (Q4 – Web of Science - Elsevier – SCOPUS Indexed).

8. **J.N.Chandra Sekhar**, Dr.G.V.Marutheswar, "**Direct Torque Control of Induction Motor using Enhanced Firefly Algorithm - ANFIS**", World Scientific Publisher - Journal of Circuits, Systems and Computers, Vol.26, Issue 6, July 2017.
(Q3 - SCIE – Web of Science Indexed). https://doi.org/10.1142/S021812661750092X

9. D.Nikita, **J.N.Chandra Sekhar**," **Modeling and Simulation of IM Drive Performance Using PI, ANN and FLC**", International Conference on IT Convergence and Security (ICITCS-2013), IEEE Computer Society, 16-18 December 2013, Macau, China. (Elsevier – SCOPUS Indexed).

10. C.L.Sravanthi, **J.N.Chandra Sekhar**, N.Chinna Alluraiah, C.Dhanamjayulu, P.Harish Kumar, Baseem Khan, " **An Overview of Remaining Useful Life Prediction of Battery Using Deep Learning and Ensemble Learning Algorithms on Data Dependent Models**", **International Transactions on Electrical Energy Systems – John Wiley**, (Article in Press - 2024)
(Q2 - SCIE – Web of Science Indexed).

11. **J.N Chandra Sekhar**, M Kiran Mayee, Ranjana Nadagoudar, C. Dhanamjayulu, Ravikumar Chinthaginjala, Ravi K, Praveenkumar M, Satyajit Mohanty, Baseem Khan, "**Classification and Comparative Evaluation of Text and Emoji based Tweets with Deep Neural Network Models**", Journal of Electrical and Computer Engineering - – **John Wiley,** (Article in Press - 2024)
(Q2 - SCIE – Web of Science Indexed).

Journal Reviewer

- Reviewer for International Journal of Machine Learning and Cybernetics – Springer - (Q2-SCI Indexed)
- Reviewer for Journal of Super Computing – Springer - (Q2-SCI Indexed)
- Reviewer for Engineering Technology & Applied Science Research - EOS ASSOC - (Q2-SCI Indexed)
- Reviewer for Security and Privacy Journal – John Wiley & Sons Ltd – (Q3-SCI Indexed)
- Reviewer for International Journal of Smart Grid and Green Communications – Inderscience, UK.
- Reviewer for International Journal of Power Electronics and Drive Systems, ISSN: 2088-8694 (Q3-SCOPUS indexed)

Courses Taught

- Power Electronics
- Power Semiconductor Controlled Drives
- Microprocessors and Applications
- Artificial Intelligence Techniques
- Industrial Drives and Control
- Digital Control Systems
- Neural Networks and Fuzzy Logic

Books and Chapters

1. Dr.P.Dinakar Prasad, Ch.Devisree, **Dr.J.N. Chandra Sekhar**, 'Indirect Vector control of Induction Motor with Hybrid Controllers', Scholar's Press-2021. ISBN: 978-613-8-95513-9.
2. **Dr.J.N.Chandra Sekhar**, P.Dinakara Prasad Reddy and K.Guna Prasad, "Performance Improvement in Asynchronous drive with Hybrid Algorithms", Lambert Academic Publishing-2021.ISBN: 978-620-3-92188-5.