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| **J N Chandra Sekhar**  Assistant Professor of Electrical and Electronics Engineering  Sri Venkateswara University  Tirupati-AP  India | | | **P:** (+91) 91771-77782  **E:** chandrasekhar.jn@svuniversity.edu.in  **A:** 401, Vadlapati Towers, Gandhipuram, Tirupati-517502, India  **Scopus Author ID:** 57193009758  **ORCID:** https://orcid.org/0000-0003-2767-2467  **Web of Science ResearcherID**: IWM-1985-2023 |
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| **Education** | | | |
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| **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 | |
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| **M.E. in Power Electronics and**  **Industrial Drives**  Aug 2004 - June 2006  **B.Tech. in Electrical &**  **Electronics Engineering**  July 2000 - June 2004 |  | **Satyabama Institute of Science and Technology, Chennai, India**  **JNT University, Hyderabad, India** | |
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| **Key Journal and Conference Publications** | | | |
|  | | | |
| 1. 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. (ESCI - Web of Science Indexed) DOI : 10.47974/JIM-1661. 2. 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. (SCIE – Web of Science Indexed)   <https://doi.org/10.1145/3618110>.   1. 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**, (Accepted and Article in Press - 2023) (SCIE – Web of Science Indexed). 2. **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** (Accepted and Article in Press - 2023) (SCIE – Web of Science Indexed). 3. 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 & Hindawi**, (Accepted and Article in Press - 2023) (SCIE – Web of Science Indexed).      1. 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). 2. 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 (Elsevier – SCOPUS Indexed). 3. **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. (SCIE – Web of Science Indexed).      1. 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).  |  | | --- | | **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. | | | | |
| **Academic Experience** | | | |
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| **Assistant Professor**  August 2009-2023 |  | **Sri Venkateswara University, Tirupati – AP, India**  **Department of Electrical and Electronics Engineering** | |
| |  |  |  | | --- | --- | --- | | **Skills** | | | |  | | | | * Programming and Hands-on experience in MATLAB, PSIM, PSICE, LABVIEW, Code Composer Studio of Texas Instruments. * Artificial Intelligence and Machine Learning using Python in Google Colaboratory, Jupyter notebook with knowledge on TensorFlow and SCIKIT. | | | | **Journal Reviewer** | | | |  | | | | * Technical reviewer for Security and Privacy Journal – John Wiley – (Q1-SCI Indexed) * Technical reviewer for International Journal of Smart Grid and Green Communications – Inderscience, UK. * Technical 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 | | | | **Research and Laboratory activities** | | | | * Established Internet of Things (IoT) Lab for B.Tech Program * Successfully guided 34 M.Tech Projects and 15 B.Tech Projects * 5 Research Scholars are in pipeline working on Electric Vehicle Systems, Machine and Deep Learning applications. | | | |  | | | | **Professional Affiliations** | | | | * Life Member of Institution of Engineers India (MIE – 1488486) * Member of Institute of Electrical and Electronics Engineers (IEEE – 92898477) * Member of International Association of Engineers (M – 176418) * Member of Institute of Research Engineers and Doctors (SNM – 101003349) * Member of Association of Computing Machinery (ACM - 5119435) * Member of The Indian Science Congress Association (L31576) | | | | **References** | | | |  | | | | **Dr. R.V.S.Satyanarayana**  Professor of ECE  Sri Venkateswara University  Tirupati, AP 517502  [v.s.ravinutala@gmail.com](mailto:v.s.ravinutala@gmail.com) | **Dr.Ramanadha Mangiri**  Energy Systems Engineering  Seoul National University  Seoul, South Korea 08826  ramanadhsnu@snu.ac.kr | **Dr.R.V.S.S.N.Ravi Kumar**  Professor of Physics  Acharya Nagarjuna University  Guntur, AP 522510  rvssn@yahoo.co.in | | | | |