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NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Affiliated to Anna University)

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Department of Electrical and Electronics Engineering

Personal Details				
Name:	Dr.R.Venkatasubramanian			
Designation:	Professor & Head			
Educational Qualification:	M.E.,Ph.D.			
Experience:	25 years			
Area of Specialization:	Power Electronics, Electrical Machines, Renewable Energy			

Educational Details				
S.No.	Degree	Branch/Specialization	Institute/University	Year
1	BE	Electrical and Electronics Engineering	Kongu Engineering College,Bharathiyar University, Couimbatore	1998
2	ME	Power Electronics and Industrial Drives	Sathyabama University, Chennai.	2007
3	Ph.D.	Faculty of Electrical Engineering	Sathyabama Institute of Science and Technology, Chennai.	2019

Publication Details

- 1. An efficient minimum cost battery charging and discharging scheduling scheme for electric vehicle using hybrid energy valley-pathfinder algorithm, Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2024 | Journal article, DOI: 10.1080/15567036.2024.2336174, EID: 2-s2.0-85190067359, Part of ISSN: 15567230 15567036, CONTRIBUTORS: Sampath, M.; Musthafa, M.T.A.; Venkatasubramanian Ramaswamy. Source: Scopus Elsevier
- **2. Comparative Analysis of Deep Learning and Machine Learning Algorithm for Concrete Crack Detection, AIP Conference Proceedings, 2024** | Conference paper, DOI: 10.1063/5.0222363, EID: 2-s2.0-85202880866, Part of ISSN: 15517616 0094243X,

- Padmavathy, R.; Kalaiarasi, G.; Venkatasubramanian, R.; Devi, M.; Joshila Grace, L.K. **Source**: Scopus Elsevier
- **3. Integrating AI-driven Fault Detection and Protection Technique for Electric Power Components and Systems, International Journal of Renewable Energy Research, 2024** | Journal article, DOI: 10.20508/ijrer.v14i2.14553.g8890, EID: 2-s2.0-85196661220, Part of ISSN: 13090127, Venkatasubramanian, R.; Diwakar, G.; Subhashini, P.; Kumar, V.V.; Rayudu, K.; Isaac, J.S.; Teja, K.B.; Rajaram, A. **Source**: Scopus Elsevier
- **4.** Integrating Hydrogen Energy Storage into Urban Mobility Solutions, E3S Web of Conferences, 2024 | Conference paper, D0I: \frac{10.1051/e3sconf/202454011009}{10.1051/e3sconf/202454011009}, EID: 2-s2.0-85198059105, Part of ISSN: \frac{22671242}{25550403}, Suresh, A.R.; Venkatasubramanian, R.; Hussien Jasim, L.; Santhoshkumar, M.P.; Aggarwal, S.; Kale, **Source**: Scopus Elsevier
- **5. Smart Safety Helmet For Coal Miners, Proceedings of the 2024 10th International Conference on Communication and Signal Processing, ICCSP 2024,** | Conference paper, DOI: 10.1109/ICCSP60870.2024.10543398, EID: 2-s2.0-85195934038, Part of ISBN: 9798350353068, Puviarasi, R.; Raja, A.; Venkatasubramanian, R.; Gomathi, M. **Source**: Scopus Elsevier
- 6. Discussion and Application of Virtual Garment Design Technology, 2023 2nd International Conference on Smart Technologies for Smart Nation, SmartTechCon 2023
- **2023** | Conference paper, DOI: <u>10.1109/SmartTechCon57526.2023.10391308</u>, EID: 2-s2.0-85184803122, Part of ISBN: <u>9798350305418</u>, Venkatasubramanian, R.; Vidhya, V.; Sankar Ganesh, S.; Khadjibekov, S.; Alawady, A.H.; Uma Reddy, N.V. **Source**: Scopus Elsevier
- 7. Privacy-Preserving Data Mining Methods for Sensitive Information, Proceedings International Conference on Technological Advancements in Computational Sciences, ICTACS 2023, 2023 | Conference paper, DOI: 10.1109/ICTACS59847.2023.10390087, EID: 2-s2.0-85185370377, Part of ISBN: 9798350342338, Singh, S.; Jasim, L.H.D.; Dhote, V.; Suseela, D.; Venkatasubramanian, R. Source: Scopus Elsevier.
- **8.** Monitoring of Photovoltaic Fed Induction Motor Control using IoT, 2023 2nd International Conference on Edge Computing and Applications (ICECAA), 2023-07-19 | Journal article, DOI: 10.1109/icecaa58104.2023.10212286, M. Nandhini; G. Arunsankar; S. Daisylin Anbu Sujitha; R. Venkatasubramanian.
- **9.** E-waste infused bituminous mix for flexible pavements Materials Today: Proceedings 2023-05 | Journal article, DOI: 10.1016/j.matpr.2023.05.354, Part of ISSN: 2214-7853, Su. Suganthi; R. Arunkumar; R. Premkumar; P. Suthahar; R. Venkatasubramanian, **Source**: grade Preferred source (of 2).
- 10. AC to DC Converter Execution using EMI Filtration System 2023 IEEE International Conference on Integrated Circuits and Communication Systems (ICICACS),2023-02-24 | Conference paper,DOI: 10.1109/icicacs57338.2023.10099711, CONTRIBUTORS: Kathir I; Venkatasubramanian R; Sivakumar S; Muthuraj B; Shelly Garg; Siranthini B. Source: grade Preferred source (of 2).
- **11.** Integrating Nanomaterial and High-Performance Fuzzy-Based Machine Learning Approach for Green Energy Conversion Journal of Nanomaterials **2022** | Journal article ,DOI: <u>10.1155/2022/5793978</u> ,EID: 2-s2.0-85124659682, Part of ISSN: <u>16874129 16874110</u>. CONTRIBUTORS: Sujith, A.V.L.N.; Swathi, R.; Venkatasubramanian, R.; Venu, N.; Hemalatha,

- S.; George, T.; Hemlathadhevi, A.; Madhu, P.; Karthick, A.; Muhibbullah, M. et al. **Source**: Scopus Elsevier.
- 12. Power yield improvement of wind turbine and fatigue load mitigation using predictivebased **Active** flow controller Energy Reports 2022-11 | Journal DOI: 10.1016/j.egvr.2022.10.285. Part of ISSN: 2352-4847, G. Srinivasa Sudharsan; R. Venkatasubramanian; N. Hemalatha; Radhika G. Deshmukh; Mohana Alanazi; Ahmad Almadhor; S. Lokesh; Karthikeyan N.; M. Sudhakar. **Source**: grade Preferred source (of 2).
- 13. Integrating Nanomaterial and High-Performance Fuzzy-Based Machine Learning Approach for Green Energy Conversion Journal of Nanomaterials, 2022-01-29 | Journal article Source: VENKATASUBRAMANIAN R.
- **14.** Smart Grid Based Multiagent System in Transmission Sector Proceedings of the 3rd International Conference on Inventive Research in Computing Applications, ICIRCA 2021, 2021 | Conference paper, DOI: 10.1109/ICIRCA51532.2021.9544644, EID: 2-s2.0-85116924822 CONTRIBUTORS: Rubavathy, S.J.; Venkatasubramanian, R.; Kumar, M.M.; Ganthia, B.P.; Kumar, J.S.; Hemachandu, P.; Ramkumar, M.S. **Source**: Scopus Elsevier.
- **15. Investigation of Matrix Converter for Wind Energy Conversion IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE) 2021-07-18** | Journal article, VENKATASUBRAMANIAN R.
- **16.** Propeller Load Characteristic Pmsm Vector Control System Simulation Based Annals of the Romanian Society for Cell Biology2021-05-08 | Journal article, VENKATASUBRAMANIAN R
- **17. SMART LANDWIRTSCHAFT Journal of critical reviews 2020-09-02** | Journal article, DOI: 10.31838/jcr.07.05.259, Part of ISSN: 2394-5125.
- 18. POWER CONTROL OF DOUBLY FED INDUCTION GENERATOR USING DPC METHOD International Journal of Electrical Engineering and Technology (IJEET) 2020-07-11 | Journal article, VENKATASUBRAMANIAN R.
- 19. Investigation of ANFIS based grid integration of DFIG using matrix converter in wind energy conversion system International Journal of Engineering & Technology 2019-03-22 | Journal article VENKATASUBRAMANIAN R.
- **20**. Fuzzy logic control based grid integration of doubly fed induction generator using matrix converter Journal of Computational and Theoretical Nanoscience **2017** | Journal articleDOI: 10.1166/jctn.2017.6487, EID:2-s2.0-85021750811, Part of ISSN: 15461963 15461955 Venkatasubramanian, R.; Raghavendiran, T.A. **Source**: Scopus Elsevier.
- 21. Quest for energy efficiency in digital signal processing: Architectures, algorithms, and systems VLSI: Circuits for Emerging Applications, 2017 | Book chapter Part of DOI: 10.1201/b17635, EID: 2-s2.0-85051995285, ISBN: 9781466599109 9781466599093

 Source: Scopus Elsevier
- **22.** Heterogeneous NEMS-CMOS DCM buck regulator for improved area and enhanced power efficiency, IEEE Transactions on Nanotechnology, **2015** | Journal article, DOI: <u>10.1109/TNANO.2014.2371992</u>, EID: 2-s2.0-84921029456 Part of ISSN: <u>1536125X</u>, Manohar, S.K.; Venkatasubramanian, R.; Balsara, P.T. **Source**: Scopus Elsevier
- 23. Noval three phase to three phase matrix converter for high power applications International Journal of Applied Engineering Research 2014 | Journal article

EID: 2-s2.0-84941083260 Part of ISSN: 09739769 09734562 Venkatasubramanian,

R.; Raghavendiran, T.A. **Source**: *via* Scopus - Elsevier

24. ROLE OF POWER CONVERTERS FOR DFIG BASED WIND ENERGY CONVERSION SYSTEMS

i-manager's Journal on Power Systems Engineering 2014 | Journal article DOI: 10.26634/jps.2.3.3032 Part of ISSN: 2321-7499 Part of ISSN: 2322-0376 VENKATASUBRAMANIAN R; RAGHAVENDIRAN T.A.; Research Schalor, Sathyabama University, Chennai, India; Principal, Anand Institute of Higher Technology, Chennai, India. **Source**:

25. NEM relay-based sequential logic circuits for low-power design IEEE Transactions on Nanotechnology **2013** | Journal article DOI: <u>10.1109/TNAN0.2013.2252923</u> EID: 2-s2.0-84877870730 Part of ISSN: <u>1536125X</u> Venkatasubramanian, R.; Manohar, S.K.; Balsara, P.T. **Source**: Scopus – Elsevier.

Professional Society Membership

- 1. ISTE (The Indian Society for Technical Education)Life Member- LM63725
- 2. International Association of Electrical, Electronic and Energy Engineering (IAEEEE)- 71050611
- 3. IEEE Institute of Electrical and Electronics Engineers

Program Attended

- 1. Attended Faculty Development Programme on "Microcontroller 8051 and DSP 320 C5X" Sponsored by DOTE, Chennai held at VSVN Polytechnic College, Virudhunagar during 10th To 15th November, 2003.
- 2. Attended Faculty development Programme on "PLC and Applications" Organized by National Institute of Technical Teachers Training & Research, Chennai during 13th to 17th November 2004.
- 3. Attended Faculty Development Programme on "Microcontrollers", conducted by VI Micro systems, Chennai held at Elumalai Polytechnic College, Villupuram during 17th and 18th December 2004.
- 4. Participated in one day Workshop on "Industrial Applications of Finite Elements Methods", organised by Department of EEE held at Sathyabama University on 9th October, 2009.
- 5. Participated in one day Workshop on "Computational Intelligence", organised by Department of EEE held at Sathyabama University on 18th June, 2010.
- 6. Participated in one day Workshop on "Robotics and its Industrial Applications", organised by Department of E&I held at Dr. M.G.R University on 4th Feb, 2011.
- 7. Participated in Three days National Workshop on "Modelling and Control of Wind Energy Conversion Systems", organised by Department of EEE held at RMK Engineering College on 28th to 30th December, 2011
- 8. Participated in the AICTE sponsored National Level Seminar on "Future Trends in Communication Networks", organised by Department of ECE held at SRR Engineering College, Chennai on 5th & 6th July, 2012.
- 9. Participated in Two days National Workshop on "Power Electronics For Renewable Energy Systems", organised by Department of EEE held at Prathyusha Institute of Technology and Management on 4th and 5th December 2013.

- 10. Participated in National Level Seminar on "Smart Grid", organised by Department of EEE held at Karpaga Vinayagar College of Engineering and Technology, on 25th Feb, 2015.
- 11. Participated in one day Workshop on "Glimpses on Effective Research & Proposal Writing", organised by Department of EEE held at St. Joseph's Institute of Technology, Chennai on 20th October, 2016.
- 12. Participated FDP on Online FDP Bio- Inspiring Learning 20.12.2021- 24.12.2021 (5 days) at Sri Sairam Engineering College, Chennai.
- 13. Participated FDP on Emerging Advancements of Wireless Communication and Applications of Power Electronics in Smart Grid Systems 28.02.2022-05.03.2022 (6 days) at Jeppiaar Institute of Technology, Chennai.
- 14. Participated FDP on Impact of Artificial Intelligence in the field of Engineering 26.09.2022 30.09.2022 (5 days) at Vels Institute of Science Technology and Advanced Studies, Chennai.
- 15. Participated FDP on Recent Trends in Electric Vehicle technology 19.06.23- 23.06.23 (5 days) at Nadimpillai Satyanarayana Raju Institute of Technology, Visakhapatnam.
- 16. Advancement in Quantum Computing and Sensor Technology for Viksit Bharat@2047 15.4.24 to 27.4.24(two weeks) at The OXFORD college of Engineering, Bengaluru.
- 17. Participated FDP on .Application of Power Electronics in Renewable Energy System 13.5.2024 17.5.2024 (5 days) at Dr.M.G.R Educational and Research Institute, Channai.
- 18. Participated FDP on Powering the future Integrating Electric vehicles with Smart Grid 27.08.2024 31.08.20244 (5 days) at BHARATH Institute of Educational and Research, Channai.

Other Details

- 1. **Dr.R.Venkatasubramanian** (2021), Book chapter "Electrical Power Transmission systems inn Reactive-Power control" has been published in Lulu Publication, USA, ISBN: 978-1-300-39582-9, Volume II(ICT and Engineering), pp. 41-45.
- 2. **Dr.R.Venkatasubramanian** (2023), Book chapter- Development and Characterization of a Low Cost Solar air Collector has been published with ISBN 978-93-94521-13-1
- 3. The title of Invention Institutional patent 2022 ECONOMIC AND ENVIRONMENTAL CONTROLS FOR SMART GRIDS FROM SPATIOTEMPORAL OPTIMIZATION OF ELECTRIC VEHICLE CHARGING, New Prince Shri Bhavani College Of Engineering And Technology, **Dr.R.Venkatasubramanian**, has been published and granted.
- 4. The title of Invention Institutional patent 2024 PNEUMATIC-BASED POWER TRACKING DEVICE FOR PV PANEL, New Prince Shri Bhavani College Of Engineering And Technology, **Dr.R.Venkatasubramanian**, has been published and granted.
- 5. **Dr.R.Venkatasubramanian** reviewer in Journal of Emerging Technologies and Innovative Research..