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### **LIST OF PUBLICATIONS**

#### **❖ International / National Journals**

1. Geetha. A , Subramaniam. N.P. and Gnanadass.R. (2019), ‘Operation of Current-fed Dual Active Bridge DC-DC Converters for Microgrid,’ International Journal of Recent Technology and Engineering (IJRTE)’ at Volume-8 Issue-2, July 2019.
2. Raju. M and **Subramaniam.N.P.** (2018), ‘Upgrading transmission line capability by AC–DC conversion’, Elsevier Computers and Electrical Engineering, Vol. 68, pp 616-628.
3. Suresh.S. Gnanadass.R, **Subramaniam.N.P.** and Bharatiraja.C (2017), ‘Electric Power Quality Recognition for Distribution Feeders: A Real Time Study’, Journal of Electrical Engineering, Vol. 17, Edition 2, pp 69-77.
4. Divyalakshmi.D, and **Subramaniam N.P.** (2017), ‘Photovoltaic based DVR with Power Quality Detection using Wavelet Transform’, Elsevier, Science Direct Energy Procedia, 117, pp 458–465.
5. Somassoundaram T and **Subramaniam N.P.** (2016), ‘High capacity image steganography using secret key for medical information”, *Indian Journal of Science and Technology*, Vol.9 (3), 81455.
6. Jesudoss.A and **Subramaniam.N.P.** (2016), ‘EAM: Architecting Efficient Authentication Model for Internet Security using Image-Based One Time Password Technique’, *Indian Journal of Science and Technology*, Vol 9(7), pp.1-8.
7. Senthamil Selvan.S, Bensraj. R and **Subramaniam.N.P.** (2016), ‘Fuzzy Logic Controller on Positive Output KY Voltage Boosting Converter’, *International Journal of Emerging Technology and Advanced Engineering*, Vol 6, Issue 2, pp. 64-71.
8. Balamurugan, J., and **Subramaniam, N.P.** (2016), “AI Based Algorithm Towards Achievement Of Self-healing Smart Grid System” *International Education & Research Journal [IERJ]*, E-ISSN No: 2454-9916, Vol. 2, No. 11.
9. Suresh.S, Gnanadass.R, **Subramaniam.N.P.** Suruthi. L, and Sonia.I (2015), ‘Sensorless Speed Control of Three Phase Inverter Fed Induction Motor Drives using MRAS’, *International Journal of Applied Engineering Research*, Vol. 10, No.51, pp.411-415.
10. Somassoundaram T and **Subramaniam, N. P.** (2015), ‘High performance angiogram sequence compression using 2D bi-orthogonal multi-wavelet and hybrid SPIHT-DEFLATE algorithm’, *Indian Journal of Science and Technology*, Vol.8 (14), 65559.

11. Somassoundaram T and **Subramaniam N.P.** (2015), 'High performance ECG compression using 2D Bi-orthogonal multi wavelet and hybrid SPIHT Deflate algorithm,, International Journal of Applied Engineering Research, Vol.10, No.1, pp. 1971-1979.
12. Senthamil Selvan.S, Bensraj. R and **Subramaniam.N.P.** (2015), 'Performance Analysis of Adaptive NeuroFuzzy Controller InTransient Modes of Positive Output KYVoltage Boosting Converter', International Journal of Computer Technology and Applications, Vol. 8(5), pp. 2313-2326.
13. Balamurugan, J., and **Subramaniam, N.P.** (2015), 'Comparison of various Power optimization technique DFACTS using Artificial Intelligence Techniques' International Journal Applied Engineering Research[IJAER], ISSN 0973-4562, Vol. 10,No.6.
14. Senthamil Selvan.S, Bensraj.R, Ramash Kumar,K, **Subramaniam.N.P.** (2015), 'Design, Analysis, Simulation Study and Corroboration of Classical Controller for a Negative Output KY Boost Converter', International Journal of Applied Engineering Research, Vol. 10, No.51, pp 485 – 494.
15. Somassoundaram.T and **Subramaniam.N.P.** (2014), 'A Hybrid scheme for Medical Image Compression using SPIHT and Deflate Technique', International Journal of Engineering Research and Technology, Vol. 3 Issue 5.
16. Somassoundaram.T and **Subramaniam.N.P.** (2014), 'An Extensive Researches on Image Compression Techniques: A Review', International Multidisciplinary Research Journal, Vol.3, Issue 12.

#### ❖ *International / National Conferences*

1. Geetha.A and **Subramaniam N.P.** (2020) "Time Series Load Flow Analysis of Indian Practical Distribution System with PV Integration", International Conference on Advances in modeling, control and optimization of Electrical Systems(ICAES 2020), Pondicherry Engineering College, Puducherry. (Best Paper of Session)
2. Keerthigha T and **Subramaniam N.P.** (2020) "Comparative Analysis of Bidirectional DC/DC Converter for Enhancement of Efficiency in PV Applications", International Conference on Advances in modeling, control and optimization of Electrical Systems(ICAES 2020), Pondicherry Engineering College, Puducherry.
3. Kesavamoorthy. M, **Subramaniam N.P.** and Geetha. A,(2019) "Maximum Power Extraction from PV Panel with DC-DC Converter in Dynamic Condition using Hybrid Perturb and Observe Algorithm", 5th International Conference on Science, Technology, Engineering and Mathematics [ICONSTEM 2K19], Jeppiaar Engineering College, Chennai.
4. Maheshwar reddy. P, Yogesh ram R and **Subramaniam N.P.** (2019) "Analysis of Reactive Power Measurement Methods for Non-Sinusoidal Signals", 2 nd National Conference proceedings on Innovative Solutions in Electrical Engineering Science (NCISEES'19), Sri Sai Ram Institute of Technology, Chennai.
5. Kalaivani I.C, Divyalakshmi.D, and **Subramaniam N.P** ,(2017), 'A Standalone Hybrid Power Generation System' IEEE Sponsored Third International Conference on Computation of Power, Energy, Information and Communication, (ICCPEIC'17), Adhiparasakthi Engineering College Melmaruvathur

6. **Subramaniam N.P.** and Poongodhai. N,(2017)” Wavelet Transform Based Control Algorithm For Mitigation Of Power Quality Problems In A Microgrid”, International Conference On Frontiers In Engineering, Applied Sciences And Technology, NIT Tiruchirappalli.
7. Somassoundaram.T and **Subramaniam, N.P.** (2016), ‘Self-Intelligent Compression on EEG Signals’, International Conference on Communication and Security (ICCS 2016), Pondicherry Engineering College, Puducherry, India, SP186(Paper id),March 17-19.
8. Somassoundaram.T and **Subramaniam, N.P.** (2016), ‘Wavelet based Spectrum Data Compression for Cognitive Radio’, *International Conference on Emerging Trends in Engineering and Management Research (ICETEMR-2016)*, April 23.
9. Divyalakshmi.D, **Subramaniam N.P** ,(2016), ‘Power Quality Improvement in Microgrids: A Review’ IEEE Sponsored Third International Conference on Computation of Power, Energy, Information and Communication, (ICCPEIC’16), Adhiparasakthi Engineering College Melmaruvathur.
10. Somassoundaram.T and **Subramaniam, N.P.** (2015), ‘Data Hiding and Compression method for Digital Images using Side Match Vector Quantization’, *National Conference on Emerging Trends in Science and Engineering (NCETSE-2015)*, March 12.
11. Somassoundaram.T and **Subramaniam, N.P.** (2015), ‘High Density Compression of Medical Diagnostic Information for Tele Medicine Communication’, *International Conference on Telecommunication Technology & Management (ICTTM 2015)*, IIT Delhi, pp.12-25, April 11-12.
12. Somassoundaram.T and **Subramaniam, N.P.** (2015), ‘Data Hiding and Compression Techniques for Medical Images’, *International Conference on Innovative Research in Engineering-2015, [International Journal of Emerging Technology in Computer Science and Electronics (IJETCSE)]*, pp.215-221, January 24.
13. **Subramaniam N.P.** (2014), ‘Analysis and Estimation of Power Quality Disturbance using Wavelet Packet’, ICIRET-2014 Proceeding of the International Conference on Innovative Research in Engineering and Technology, E.G.S. Pillay Engineering College, Nagapattinam.
14. **Subramaniam N.P.** (2014), ‘Improvement of Power Quality using S-Transform combined with Fuzzy Logic’, ICIRET-2014 Proceeding of the International Conference on Innovative Research in Engineering and Technology, E.G.S. Pillay Engineering College, Nagapattinam.

#### ❖ **Courses/Workshop / Conferences Organized**

1. Coordinator for the AICTE-QIP sponsored one week Short Term Course on “Integration of advanced technologies to Power Quality Solutions for Green Energy Systems in Smart Grid (IPQSGES2G-2020)”, 17<sup>th</sup> to 22<sup>nd</sup> February 2020, Department of Electrical and Electronics, Pondicherry Engineering College, Puducherry
2. Coordinator for the AICTE-QIP sponsored one week Short Term Course on “Power Electronics Systems and Control (PESCON’16)”, 19th to 23rd December 2016, Department of Electrical and Electronics, Pondicherry Engineering College, Puducherry.
3. Joint Publication Secretary for the TEQIP sponsored International Conference on Contemporary Topics on Power Engineering and Aiding Technologies, 24-25 February 2017, Department of Electrical and Electronics, Pondicherry Engineering College, Puducherry.

❖ ***Book Publications***

- **Subramaniam N.P.** and Anoop Mathew, “Electrical Technology”, Narosa Publications. First Edition 2017.
- **Subramaniam N.P.** and Thiyagarajan.T, “Renewable Energy Sources”, Lakshmi Publications, First Edition 2012.

❖ ***Projects Guided***

- Completed: **UG – 15, PG – 30, Ph.D - 8**
- On Going: **UG -1 , PG - 1 and Ph.D – 3**

❖ ***Reviewer***

- Reviewer in Tata McGra hill Book Publications.
- Reviewer in Interscience Journal Publications.
- Reviewer in International Journal of Electrical Engineering and Embedded Systems.
- Reviewer – Journal of Information, Intelligence and Knowledge
- Reviewer - International Journal of Signal and Imaging Systems Engineering

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