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Dr.S.Premalatha, working as an Assistant Professor in the Department of EEE at SRMIST, Ramapuram. She Graduated in Electrical and Electronics Engineering at Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu, India. She secured Master of Engineering in Power Electronics and Drives at Anna University, Chennai, India. She Pursued Ph.D. in the field of Power Quality at SRM University, kattankulathur, Chennai, India. She is in teaching profession for more than 17 years. She has presented number of papers in National and International Journals, Conference and Symposiums.

## Areas of Research:

Power Electronics and Drives, Power Quality, FACTS, Renewable Energy

# **PUBLICATIONS - INTERNATIONAL JOURNALS**

1.Subhransu Sekar Dash, P. Palanivel, S. Premalatha, "Performance Analysis of Multilevel Inverters Using Variable Switching Frequency Carrier Based PWM Techniques", Renewable Energy & Power Quality Journal (RE&PQJ), ISSN 2172-038X, Vol. 10, pp. 112-118, 25<sup>th</sup> April 2012

2.N. Chellammal, Subhransu Sekhar, Dash, S. Premalatha, Rayaguru, "Three Phase Multi Carrier

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3.A. Naga Himaja, S. Premalatha, Subhransu Sekhar, Dash, Paduchuri Chandra Babu, "A Novel Control Strategy for DVR to Improve Voltage Profile in Wind Farm", Advanced Material Research, ISSN/ISBN 1662-8995, Vol. 768, pp. 344- 350, 2013

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5.S. Premalatha, Dr. Subhransu Sekhar Dash, J. Arun Venkatesh, N.K. Rayaguru, "Non-Iterative Optimization Algorithm based D-STATCOM for Power Quality Enhancement", International Review on Modeling and Simulations (I. RE.MO. S.), ISSN 1974-9821, Vol. 6, No. 6, pp. 1837-1848, December 2013

6.S. Premalatha, Dr. Subhransu Sekhar Dash, D. Sunitha, R. Mohanasundaram, "PV Supported DVR and D-STATCOM for Mitigating Power Quality Issues", International Review on Modeling and Simulations (I. RE.MO. S.), ISSN 1974- 9821, Vol. 6, No. 6, pp. 1849-1857, December 2013:

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9.S. Premalatha, S. Sukanthan, D. Sunitha, V. Umayal Muthu, "Reactive Power Compensation with UPQC Allocations and Optimal Placement of Capacitors in Radial Distribution Systems using Firefly Algorithm", International journal of control theory and applications (I J C T A), International Science Press, ISSN/ISBN 0974-5572, Vol. 9, pp. 7989-7999, 2016

10.S. S.Premalatha, D. Sunitha, V. Umayal Muthu, D. Prathima, "Design of UPFC based Damping Controller using Neuro Fuzzy to Enhance Multi-machine Power System Stability", Indian Journal of Science and Technology (IJST), ISSN 0974-6846, Vol. 9, pp. 1-7, December 2016

11.S. Premalatha, P. Shanmugapriya," Comparative Study on Performance analysis of SEPIC/Modified SEPIC Converter with PI Controller", TEST Engineering & Management, Vol. 83: May/June 2020.

12.S.Premalatha, Subramani Chinnamuthu, Vinothkumar Balan, Krithika Vaidyanathan, Vimala Chinnaiyan "Analysis of single-phase cascaded H-bridge multilevel inverters under variable power conditions", Indonesian Journal of Electrical Engineering and Computer Science, Vol. 30, No. 3, June 2023, pp. 1381~1388.

#### **Books/Book Chapters Published:**

Arun Bhaskar M., Indhirani A., Premalatha S. (2016) Optimization of Impedance Mismatch in Distance Protection of Transmission Line with TCSC. In: Dash S., Bhaskar M., Panigrahi B., Das S. (eds) Artificial Intelligence and Evolutionary Computations in Engineering Systems. Advances in Intelligent Systems and Computing, vol 394. Springer, New Delhi

Member – ISTE

#### **Google Scholar:**

https://scholar.google.com/citations?hl=en&user=VWr99qcAAAAJ

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