



**Prof. Dr. S. Karthikumar**

**Professor & HoD**

### Qualification Details

**B.E (Electrical & Electronics Engineering), University of Madras, 2000**

**M.E (Applied Electronics), Anna University Coimbatore, 2010**

**Ph.D (Power Electronics and Drives), St. Peter's University, 2017**

### Experience

**15 Years**

### Publication Details

1. "Design of temperature sensor using twisted photonic crystal fiber", *ELSEVIER – Results in Physics*, ISSN 2211-3797, Vol. 10, 856-857, Sep 2018", *ELSEVIER Results in Physics* (Clarivate Analytics, JCR IF: 2.147)
2. "Numerical investigation of Co-doped Microstructured Fiber with Two Zero Dispersion Wavelengths", *ELSEVIER Results in Physics* (Clarivate Analytics, JCR IF: 2.147)
3. "Modelling of Neuro Fuzzy Controller for Negative Output KY Boost Converter Voltage Ripple Reduction", Vol.19, No.6, 47-50, Jun 2013, *Elektrotechnika Ir Elektrotechnika* (Clarivate Analytics, JCR IF: 1.088)
4. "Neuro Fuzzy Controller for Positive Output KY Boost Converter to Reduce Output Voltage Ripple", Vol.19, No.8, 19-24, Oct 2013, *Elektrotechnika Ir Elektrotechnika* (Clarivate Analytics, JCR IF: 1.088)
5. "Implementation of Neuro-Fuzzy Controller to Reduce Output Voltage Ripple of KY Boost Converter", *International Review on Modelling and Simulations*, Vol. 6, No.5, 1410-1415, October 2013, (SCOPUS indexed) (SJR: 0.428, SNIP: 0.636)
6. "Two stage KY Converter Voltage Ripple Reduction and Load Regulation by Neuro Fuzzy Controller", *International Review on Modelling and Simulations*, Vol. 6, No. 6, 1410-1415, December 2013, (SCOPUS indexed) (SJR: 0.428, SNIP: 0.636)

	<p>7. "Design of FLC for OVR Reduction of Negative Output KY Converter", <i>Int. Journal of Applied Engineering Research</i>, ISSN 0973-9769, Vol. 9, No. 24, 2014, <b>(SCOPUS indexed)</b></p> <p>8. "A Performance Comparison of Fuzzy and Neuro-Fuzzy Control of KY Boost Converter for Voltage Ripple Reduction", <i>European Journal of Scientific Research</i>, Vol. 85, No. 4, 512-526, 2012, <b>(SCOPUS indexed)</b></p> <p>9. "Two-Stage 1+2D KY Converter Voltage Ripple Reduction by Neuro Fuzzy Controller", accepted for publication in <i>PRZEGLAD ELEKTROTECHNICZNY (SCOPUS indexed)</i></p>
	<p style="text-align: center;"><b>Project Undertaken</b></p> <p>1. Undertaken Energy audit work and On-grid – Solar Power Plant design for Sri Rathna Lakshmi Spinning Mills Pvt. Ltd., Tirupur in 2017</p> <p>2. Undertaken Energy audit work and On-grid – Solar Power Plant design for Sri Elango Coir Industries Pvt. Ltd., Tirupur in 2017</p> <p>3. Undertaken On-grid – Solar Power Plant of 200kWp for BEC, Tirupur in 2017</p> <p>4. Earth resistance measurement and maintenance is carried out at BEC, Tirupur from 2015 to 2017</p>
	<p style="text-align: center;"><b>Short Term Courses</b></p> <p>1. Participated in 5 days workshop on "VHDL Programming and Implementation in FPGA" at NITTTR, Chennai from 21<sup>st</sup> to 25<sup>th</sup> May 2018</p> <p>2. Participated in two-day workshop on "Outcome Based Accreditation" at Ilahia College of Engineering and Technology, Kerala on 4<sup>th</sup> to 5<sup>th</sup> May 2018</p> <p>3. Participated in e-Yantra two-day Robotics Workshop conducted by IIT-Bombay at PSG Institute of Technology, Coimbatore on 27<sup>th</sup> and 28<sup>th</sup> April 2017</p> <p>4. Delivered lecture on Electrical Machines at K.S.R Institute of Technology on 22<sup>nd</sup> to 24<sup>th</sup> Aug 2014</p> <p>5. Delivered lecture in one day seminar conducted at Roever</p>

	<p>Engineering College, Permbalur on “Art of Publishing Research Papers”</p> <p>6. Delivered lecture in one day seminar conducted at Roever Engineering College, Permbalur on “Dissertation &amp; Thesis Preparation”</p> <p>7. Participated in AICTE sponsored SDP on “Recent Application of SCADA in Power Systems using Soft Computing Techniques” organized by Adhiyamaan College of Engineering, Hosur</p>
	<p style="text-align: center;"><b>Others</b></p> <ol style="list-style-type: none"> <li>1. Reviewer in <b>IEEE Transactions on Industrial Electronics</b></li> <li>2. Reviewer in <b>IEEE Transactions on Power Electronics</b></li> <li>3. Reviewer in <b>IET Power Electronics</b></li> <li>4. Reviewer in <b>T &amp; F Journal : Electric Power Components and Systems</b></li> <li>5. Reviewer in <b>T &amp; F Journal : International Journal of Electronics</b></li> <li>6. Reviewer in <b>Springer: International Journal of Automation and Computing</b></li> <li>7. Reviewer in <b>Springer: Journal of IE(I) – Series B</b></li> <li>8. Reviewer in <b>IETE Journal of Research</b></li> <li>9. Reviewer in <b>Measurement and Control</b></li> <li>10. Reviewer in <b>Journal of Electrical Engineering &amp; Technology</b></li> <li>11. Bagged a CASH PRIZE of 27,000 INR at Saveetha School of Engineering for JOURNAL PUBLICATIONS in Jun to Dec 2013.</li> <li>12. Bagged TWO AWARDS at Saveetha School of Engineering for filing PATENTS (Application No.: 5203/CHE/2013, 5204/CHE/2013) in Jun to Dec 2013.</li> <li>13. Bagged BEST PROJECT GUIDE award for “Design of 6x4 Switched Reluctance Motor” from ELECRAMA –</li> </ol>

2012 conducted by IEEMA at Mumbai.

14. Bagged INNOVATIVE STUDENT PROJECTS AWARD  
– 2011 by the Indian National Academy of Engineering  
(INAE).