

**NAME : Dr. M. M. Rajan Singaravel**

**Designation : Assistant Professor**

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## EDUCATION

### DOCTORATE

(May/2015)

National Institute of Technology Tiruchirappalli

**Title: Sizing of Storage and Investigations on Power Electronic Interfaces for Hybrid Wind-PV Energy Conversion Systems**

### POSTGRADUATE

(May/2010)

Power Electronics & Drives

PSG College of Technology, Coimbatore

Anna University

### UNDERGRADUATE

(May/2008)

Electrical & Electronics Engineering

SASTRA UNIVERSITY

## EXPERIENCE

04-07-2016 – till date

Assistant Professor

PSG College of Technology, Coimbatore

Teaching, Research, Time Table committee,

20-01-2016 – 03-07-2016

Assistant Professor

PSG College of Technology, Coimbatore

20-07-2015 – 19-01-2016

Temporary Faculty

National Institute of Technology Tiruchirappalli

Teaching, Research,

## COURSES HANDLED

### UNDERGRADUATE

Electrical Machine Design

Basics of Electrical & Electronics Engineering

### POSTGRADUATE

Digital Controllers in Power Electronic Applications

Power Electronic System Design

## RESEARCH AREAS

- Power Electronics for Renewable energy
- Micro Grids
- Hybrid Wind – PV Energy Conversion System
- Distributed Generators
- Battery Storage Systems

## PUBLICATIONS

### INTERNATIONAL JOURNALS

1. **M.M. Rajan Singaravel** and S. Arul Daniel. (2013) Studies on battery storage requirement of PV fed wind-driven induction generators, Energy Conversion and Management, Volume 67, Pages 34-43. **(SCI - Impact factor 4.38)**
2. **M.M. Rajan Singaravel** and S. Arul Daniel. (2015) MPPT With Single DC-DC converter and Inverter for Grid Connected Hybrid Wind-Driven PMSG-PV System, IEEE Transaction on Industrial Electronics, Volume 62 (8), Pages 4849-4857. **(SCI - Impact factor 6.498)**
3. **M.M. Rajan Singaravel** and Arul Daniel S. (2015) Sizing of PMSG-PV hybrid system for battery charging of electric vehicles. Frontiers in Energy, Volume 9 (1), Pages 68-74.

## REVIEWER RESPONSIBILITIES

- Reviewer of **IEEE** Transaction on Industrial Electronics
- Reviewer of **IEEE** Transaction on Sustainable Energy
- Reviewer of **IET** Renewable Power Generation
- Reviewer of Energy Conversion & Management (**Elsevier**)

## SEMINARS / CONFERENCES ORGANISED

1. Organized a TEQIP-II Sponsored, One week Faculty Development Programme (FDP) on the title “ ***Integration, Control, and Metering of Renewable Energy Sources for Smart Grid System: A Research Perspective Approach***” in Department of Electrical & Electronics Engineering, PSG College of Technology, Coimbatore during 20-26 June 2016.

### Assisted in organizing the following Workshops / Training Programs.

1. Short term program on “PIC Microcontroller Applications in Power Electronic Circuits” organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 22 – 23 of June 2012.
2. Short term program on “Wind Energy Electric Conversion Systems” organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 4 – 5 of January 2013.
3. Short term program on “Solar PV Electric Conversion Systems” organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 18 – 19 of January 2013.
4. Short term program on “Power Electronics and Measurements” organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 2 - 3 of May 2013.
5. Two-week ISTE workshop on “Analog Electronics” conducted by IIT – Kharagpur, at National Institute of Technology – Trichy (remote centre) during 4 - 14 of June 2013.
6. Short term program on “Wind-driven Generators” organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 13 – 14 December 2013.

## SEMINARS / CONFERENCES ATTENDED

1. Attended “International Congress on Renewable Energy” organized by Solar Energy Society of India, Delhi during October 2009
2. Attended National Level workshop on “Wind Energy Systems” conducted by the Department of Electrical & Electronics Engineering, PSG College of Technology, Coimbatore during 12th – 13th August 2011.
3. Participated in the two days Workshop on “Integrated wind-solar power systems”, organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 6th & 7th of January 2012.
4. Participated in the two days Training Program on “Renewable Autonomous Power Plants and Micro-grids”, organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 4th & 5th of February 2012.
5. Attended the Lecture series on “Power Electronic Applications in Power Systems” given by Prof. Sarath. B. Tennakoon, Staffordshire University, UK organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy during 7th & 8th of January 2013.

6. Participated in the short-term course on “Recent trends in Smart Grid Technologies”, organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy on 26th April 2014.
7. Participated in the short-term course on “Understanding IGBT: from Device to Inverter”, organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy on 8th April 2014.
8. Participated in the short-term course on “FACTS Controllers”, organized by the Department of Electrical & Electrical Engineering, National Institute of Technology – Trichy on 25th - 26th July 2014.

## SPECIAL LECTURES DELIVERED

1. Delivered an invited talk on the title “**Grid connected PMSG-PV Hybrid Renewable Energy Systems: A Techno-economic Analysis**” for AICTE QIP sponsored short term course titled “Challenges on Insulation Reliability in Smart Grid Applications” organized by the Department of Electrical & Electronics Engineering, Pondicherry Engineering College on 25.11.2015.
2. Delivered an invited talk on the title “**Power Electronics for Smart Grid**” for AICTE QIP sponsored short term course titled “Challenges on Insulation Reliability in Smart Grid Applications” organized by the Department of Electrical & Electronics Engineering, Pondicherry Engineering College on 25.11.2015.
3. Delivered an invited talk on the title “**PIC programming – C compiler**” for the workshop titled “PIC Microcontroller and its Applications” organized by the Department of Electrical & Electronics Engineering, PSNA College of Engineering during 4th & 5th December 2015.
4. Delivered an invited talk on the title “**Basics of Solar PV System**” for UG students in a seminar organized by the Department of Electrical & Electronics Engineering, PSN College of Engineering, Tirunelveli on 31<sup>st</sup> July 2016
5. Delivered an invited talk on the title “**Optimization of Solar PV System**” for the workshop titled “PV Solar Power Plant Design and Optimization” organized by the Department of Electrical & Electronics Engineering, Sri Ramakrishna Engineering College, Coimbatore on 24<sup>th</sup> August 2016

## AWARDS / FELLOWSHIPS

Holder of MHRD (Ministry of Human Resource Development) fellowship for Ph.D program funded by Govt. of India during the period of July 2010-June 2014.