

# **Dr R JAYAPRAGASH**

## **Associate Professor, SELECT, VIT Chennai Campus**

### **PUBLICATIONS**

#### **International Journals**

1. **Jayapragash R**, Arul R, Sumathi V &Chellamuthu C 2018, 'Design and Dynamic Analysis of Switched Reluctance Generator System', International Journal of Scientific Research in Science, Engineering and Technology, ISSN: 2395-1990, vol 5, no.3, pp.199-206.
2. N.Karthik, A.K.Parvathy, R.Arul& **JayapragashR** 2018, 'Optimal Placement of SVC using Firefly Algorithm', International Journal of Scientific Research in Science, Engineering and Technology, ISSN: 2395-1990, vol 5, no.3, pp.140-146.
3. **Jayapragash, R** &Chellamuthu, C 2017, 'Implementation of Wind Powered Switched Reluctance Generator System', International Journal of Renewable Energy Research (IJRER), ISSN(1309-0127),vol 7, no.3, pp.1019-1027.
4. VijayanSumathi, **Jayapragash, R**, AbhinavBakshi, Praveen Kumar Akella 2017,'Solar tracking methods to maximize PV system output- A Review of the methods adopted in recent decade', Renewable & Sustainable Energy Reviews, ISSN(1364-0321),vol.74, pp.130-138.
5. **Jayapragash, R** &Chellamuthu, C 2016, 'Design and Implementation of Small Power Switched Reluctance Generator Based Wind Energy Conversion System', Turkish Journal of Electrical Engineering & computer sciences (TJEECS), ISSN(1300-0632), vol.24, no.4, pp.3228-3239.
6. **Jayapragash, R** &Chellamuthu, C 2015, 'Development of Analytical Models for Switched Reluctance Machine and their Validation', Journal of Electrical Engineering and Technology (JEET), ISSN(1975-0102), vol.10, no.3, pp. 990-1001.
7. **Jayapragash, R** &Chellamuthu, C 2015, 'Grid-Connected Switched Reluctance Generator Based Wind Farm Control using Modified Hybrid Multicell Converter', Research Journal of Applied Sciences, Engineering and Technology (RJASET), ISSN(2040-7459), vol.9, no.11, pp.1006-1015.
8. **Jayapragash, R** &Chellamuthu, C 2014, 'Fourier Series Based Analytical Model for Switched Reluctance Machine', International Journal of Applied Engineering Research (IJAER), ISSN(0973-4562), vol.9, no.22, pp. 14259-14267.
9. **Jayapragash, R** &Chellamuthu, C 2014, 'Grid-Connected Switched Reluctance Generator Based Wind Energy Conversion System through Hybrid Multicell Converter', International Journal of Applied Engineering Research (IJAER), ISSN(0973-4562), Special Issue, vol.9, no.24, pp. 8070-8075.

#### **Indian Patents**

1. PratinavKashyap, Manish Kumar Dwivedi, **R. Jayapragash**, *Lithium-Ion Battery Monitoring And Protection System*, August 7, 2020. File No. 202041032442.
2. Oswald C, **Jayapragash R**, TrishitChakraborty, Tanishq Gupta, AdityaAgrawal, SPoTA: *Smart Prevention of Train Accidents*, August 28, 2020. File No. 202041035035.

#### **Book Chapter**

1. **Jayapragash, R**Nandeesh Kumar K, Thirumalvalavan G and Arul R 2019, 'Development of charge and discharge controller for solar lighting system', "Computer-Aided Developments: Electronics

and Communication” (Cadece-2019), CRC Press, Taylor & Francis Group, pp.275-281, ISBN: 978-0-429-34071-0 (eBook).

### **International Conferences**

1. N.Karthik, A.K.Parvathy, R.Arul, **R.Jayapragash** and SathiyaNarayanan2019, ‘Economic load dispatch in a microgrid using Interior Search Algorithm’, in Proc. IEEE- International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT), vol.1, pp.1-6.
2. Presented a paper titled ‘Development of battery energy storage system for renewable energy applications’ in the International Conference held at Sri Krishna Institutions, Coimbatore, during 2<sup>nd</sup> and 3<sup>rd</sup> January 2015.
3. **Jayapragash, R** &Chellamuthu, C 2014, ‘Modelling and Performance Analysis of Switched Reluctance Generator’, in Proc. IEEE - International Conference on Science, Engineering, Research and Management - ICSEMR, pp.1-4.
4. **Jayapragash, R** &Chellamuthu, C 2013, ‘Analysis of Switched Reluctance Machine using FEA for Renewable Energy System’, in Proc. IEEE- International Conference on Power, Energy and Control – ICPEC, pp.777-781.