

National Institute of Technology, Tiruchirappalli

Performa for CV of M. Jaya Bharata Reddy

CURRICULUM VITAE

Brief Profile: M. Jaya Bharata Reddy is working as a Professor in the Department of Electrical and Electronics Engineering, National Institute of Technology (NIT), Tiruchirappalli, India. He received the Ph.D. degree from Birla Institute of Technology (BIT), Ranchi, India, in 2008. In 2010, he received the prestigious national level Institution of Engineers of India (IEI) Young Engineer's Award in the field of Electrical Engineering in recognition of his research. Subsequently, in 2013, he received SERC Fast Track Young Scientist Award from the Department of Science and Technology (DST), Government of India. He is a Senior Member of IEEE. He is presently serving as Associate Editor for four highly reputed International journals like IET GTD, IET HV, IEEE Access and Electric Power Components & Systems. He holds three patents. He has published more than 110 journal and conference papers. He received four SERC externally funded projects from Department of Science and Technology (DST), Government of India worth of 177 Lakhs approximately. He has been a reviewer for many reputed international journals such as IEEE transactions, IET, Elsevier etc. in the field of power engineering. He has served as a Program Committee member for many IEEE international conferences. His current research interests include smart grid, micro grid, substation automation, wide-area protection, digital relaying, soft computing applications in power system, power quality analysis and power system protection.



1. Name	M. Jaya Bharata Reddy
2. Designation	Professor
3. Office Address	Dept. of Electrical and Electronics Engineering NIT, Tiruchirappalli, Tamil Nadu
4. Telephone (Direct)	3270
5. Email	jbreddy@nitt.edu
6. Field(s) of Specialization	smart grid, micro grid, substation automation, wide-area protection, digital relaying, soft computing applications in power systems, power quality analysis and power system protection.

7. Employment Profile

Job Title	Employer	From	To
Lecturer	Birla Institute of Technology, Mesra, Ranchi, India	July 2004	January 2009
Assistant Professor	National Institute of Technology, Tiruchirappalli, Tamilnadu, India	January 2009	January 2012
Associate Professor	National Institute of Technology, Tiruchirappalli, Tamilnadu, India	January 2012	September 2019
Professor	National Institute of Technology, Tiruchirappalli, Tamilnadu, India	September 2019	Till date

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	Birla Institute of Technology, Mesra, Ranchi	2008	--	Power Systems

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M.E.	Birla Institute of Technology, Mesra, Ranchi	2004	Distinction	Electrical Engineering
B. Tech.	Nagarjuna University, Guntur, Andhra Pradesh (A.P).	2002	Distinction	Electrical Engineering
Intermediate (10+2)	Board of Intermediate Education, Hyderabad A.P.	1997	Distinction	Mathematic Physics and Chemistry
SSC (10 th)	Board of Secondary Education, Hyderabad A.P.	1995	First Class	---

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Head IPR Cell	Institution	2021	Till date
Institute Innovation Council-IPR Activity Coordinator	Institution	2021	Till date
PMRF coordination committee Member	Institution	2021	Till date
Associate Dean of Research & Consultancy	Institution	2017	2020
IPR Cell Member	Institution	2016	2020
Anti-Ragging Committee member	Institution	2016	2016
Member of Library Committee	Institution	2014	2014

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member of Board of Study	Sri Padmavati Mahila Visvavidyalayam, Tirupathi, Andhra Pradesh	2021	Till date
External Member (Subject Expert) for conducting interviews (CAS) for EEE	RGM CET, Nadyala, Andhra Pradesh	2022	2022
Member of Board of Study	SIET, Amalapuram, Andhra Pradesh	2021	Till date
Member of UG & PG Board of Study	LBRCE, Andhra Pradesh	2021	Till date
Member of UG Board of Study	JNTU Anapapuram, Andhra Pradesh	2017	2020
Associate Editor	IET Generation, Transmission & Distribution	2018	Till date
Guest Editor-in-Chief for special issue on SIPS	IET Generation, Transmission & Distribution	2018	2019
Associate Editor	IEEE Access	2017	2022
Associate Editor	IET HV	2017	Till date
Editor	Electric Power Components & Systems (Taylor & Francis)	2013	Till date

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2020	Advisory committee member and Keynote speaker for NCSMSD-2020	National Conference on systems modeling
2015	Technical Advisory Committee member	PCCCTSG 2015 IEEE International Conference on Power, Control, Communication and Computational Technologies for Sustainable Growth (IEEE), Kurnool, Andhra Pradesh, India.
	Session Chair	
2013	IEEE Senior Member	IEEE
2013	Program Committee Member	EEEIC International Conference on Environment and Electrical Engineering (IEEE), Poland
2012	Session Chair	IEEE sponsored national conference (NPEIS 2012) on Power Energy and Intelligent systems, 28th March 2012, Sudharsan Engineering College, Sathiyamangalam, Tamilnadu, India
2012	Program Committee Member	EEEIC International Conference on Environment and Electrical Engineering (IEEE), Venice-Athens (Italy-Greece)
2011		EEEIC International Conference on Environment and Electrical Engineering (IEEE), Rome
2010		EEEIC International Conference on Environment and Electrical Engineering (IEEE), Prague
2010	IEI Young Engineers award in Electrical Engineering	Institution of Engineers India
2009	Program Committee Member	EEEIC International Conference on Environment and Electrical Engineering (IEEE), Wroclaw-Cottbus
2008	Program Committee Member	EEEIC International Conference on Environment and Electrical Engineering (IEEE), Karpacz
2002	GATE (Graduate Aptitude Test in Engineering) Scholarship	MHRD

12. Fellowships: Nil

13. Details of Academic Work

(i) Curriculum Development

1. MATLAB application to Power system (BIT, Mesra)
2. Digital Signal Processing (BIT, Mesra)
3. Power System Hardware Lab (NIT, Trichy)
4. Circuits and Devices Lab (NIT, Trichy)

(ii) Courses taught at Postgraduate and Undergraduate levels

1. Circuit Theory
2. Power systems I & II,
3. Basic Electrical Engineering,
4. Introduction to system theory,
5. Power system switchgear and Protection,
6. Power Generation systems.
7. Transmission and Distribution systems
8. Power system Analysis
9. Digital Signal Processing (DSP)
10. Power Quality
11. Computer Relaying and Wide-Area Measurement Systems
12. Power systems lab-UG and PG

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(iii) Projects guided at Postgraduate level: 36

(iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Development of Micro grid Test-Bed for Renewable Energy Management System, Rs.20.85 Lakhs	SERB, DST, Govt. of India	2012	2015	Completed
Design and Development of Solar Photo-Voltaic Powered Cold Storage System, Rs 105.81560 Lakhs	CERI, Department of Science and Technology, Govt. of India	2016	2020	Completed
Realization and Implementation of Wide-Area Disturbance Monitoring and Protection Methodology for Future Grids using PMUs, Rs.31.56 Lakhs	SERB, DST, Govt. of India	2019	2022	Completed
Investigation on Data-Driven Event Detection using Indian Power Grid's Synchrophasor Data, Rs.19.41 Lakhs	SERB, DST, Govt. of India	2018	2021	Completed
Sustainable Energy system for Achieving Novel Carbon Neutral Energy communities (SUSTENANCE), Rs.118.6 Lakhs	Department of Science and Technology, Govt. of India	2021	2025	Ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role	Year of Award
Gopakumar P	Transmission Line Fault Detection, Classification and Localization in Smart Power Grids using PMUs	Supervisor	August 2015
Mallikarjuna B	Real-time Synchrophasor Assisted Adaptive Relaying Methodology to Prevent Mal-operation Under Stressed conditions	Supervisor	August 2019
Pradeep Kumar, B	Fault detections and estimation of degradation in PV systems	Co-Supervisor	December-2020

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Event Organized by	Venue
5 th -7 th Oct 2017	TEQIP sponsored Workshop on Technical Education in National Context: Challenges and Strategies	National	NIT, Trichy	NIT, Trichy
28 th - 29 th April 2015	TEQIP-II sponsored Conclave on academic reforms	National	NIT, Trichy	NIT, Trichy
9 th – 10 th May 2013	Perspectives on Curriculum	National	NIT, Trichy	NIT, Trichy
19 th Feb 2009	Computer Networking – Hardware & Software conducted	National	NIT, Trichy	NIT, Trichy

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12 th -13 th March 2009	Practical Aspects of Computer Networking	National	NIT, Trichy	NIT, Trichy
4 th May 2009	Power Electronic Simulation-SEQUEL under the aegis of NaMPET	National	NIT, Trichy	NIT, Trichy
4 th -5 th Nov 2007	Development in power electronics Technology	National	EEE Dept., BIT, Mesra	EEE Dept., BIT, Mesra
21 st -22 nd April 2007	TEQIP sponsored short term training program on Applications of MATLAB and Toolboxes for Real-time solutions	National	EEE Dept., BIT, Mesra	EEE Dept., BIT, Mesra
22 th - 23 th Feb 2007	Computer relaying and Wide Area Measurements	National	CPRI, Bangalore	CPRI, Bangalore
25 th -28 th April 2006	International Workshop and Training on IEC 61850 Communication networks and Systems in Substation and interoperability demonstration	International	CPRI, Bangalore	CPRI, Bangalore

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convener / Co-Convener)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
DST- Sponsored Short Term Course on Recent trends in Cold Storage System	National	18th December 2019	Organizing Secretary	EEE Dept., NIT, Trichy
20th National Power Systems Conference- NPSC 2018	National	14 th -16 th December 2018	Organizing Secretary	EEE Dept., NIT, Trichy
NAMPET – sponsored Short Term Course on Application of Power Electronics to Renewable Energy Systems and Micro Grids	National	8 th -10 th Feb 2015	Organizing Secretary	EEE Dept., NIT, Trichy
TEQIP-II sponsored workshop on Recent trends in Smart Grid Technologies	National	26 th - 26 th April 2014	Organizing Secretary	EEE Dept., NIT, Trichy
Workshop on Power System Protection (Level-1 Course)(for the Executives of Power Grid Corporation of India Limited)	National	16 th -17 th March 2011	Organizing Secretary	EEE Dept., NIT, Trichy
TEQIP sponsored short term training program on DSP kit TMS320IF2407A & C6713	National	31 st March - 2 nd April, 2007	Organizing Secretary	EEE Dept., BIT, Mesra

18. Invited Talks delivered

Topic	Date	Inviting Organization
Modern Trends in Power System Protection	7th March 2022	EEE Dept., GMR and VRS College of Enginnering, Andhra Pradesh
PMU application in Smart Grid	29th Nov 2021	EEE Dept., Anna university, UCE - BIT campus Tiruchirappalli, Tamilnadu

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Phasor Measurement Unit applications to Smart Grid	09th Oct 2022	EEE Dept., Vemu Institute of Technology, Chittoor, Andhra Pradesh
PMU application in Smart Grid	28th June 2021	EEE Dept., KLEF, Andhra Pradesh
Introduction to Computer Relaying	26th May 2021	EEE Dept., NIT,Trichy,Tamilnadu
Teaching Strategy for Fault Analysis	19th May 2021	EEE Dept., NIT,Trichy,Tamilnadu
Wide Area Measurement System in Smart Grid	3rd May 2021	EEE Dept., Saranathan College of Engineering,Trichy, Tamilnadu
PMU application in Smart Grid	8th April 2021	EEE Dept., Annamacharya Institute of Technology & Sciences, Rajampet,Andhra Pradesh
PMU application in Smart Grid	25th Nov 2020	EEE Dept., K. D. K. College of Engineering Nandanvan, Nagpur, Maharashtra.
Protection of Smart Grid	28th Aug 2020	EEE Dept., PESCE, Mandya,Karnataka
SmartGrid Initiatives in India	26th Aug 2020	EEE Dept., Bapatla enginnering College, Andhra Pradesh
Smart Grid	25th Aug 2020	EEE Dept., Bapatla enginnering College, Andhra Pradesh
PMU application in Smart Grid	18th Aug 2020	EEE Dept., RMK College of Engineering and Technology,Tamilnadu
PMU based Wide Area Measurement System	22nd July 2020	EEE Dept., Kalasalingam Academy of Research and Education,Tamilnadu
Synchrophasor applications in Smart Grid	17th July 2020	EEE Dept., Saranathan College of Engineering,Trichy, Tamilnadu
Synchrophasor Measurement Units(PMUs) Application In Smart Grid	17th October 2019	EEE Dept.,NIT,Warangal, Telengana
Prevention of Zone-3 mal-Operation due to Load Encroachment using Synchrophasors	6th August 2018	EEE Dept.,Bapatla Enginnering college,Bapatla, Guntur,Andhra Pradesh
Application of Signals and Systems in Electrical Engineering	23rd March 2018	EEE Dept., MVGR College of Engineering, Vizianagaram,Andhra Pradesh
PMU application in Smart Grid	3 rd Feb 2017	EEE Dept., Lakireddy Bali Reddy College of Engineering, Mylavaram - 521230, Andhra Pradesh
LabVIEW Application to power systems	2 nd – 3 rd Dec 2016	EEE Dept., MVGR College of Engineering, Vizianagaram, Andhra Pradesh
Introduction to PMU and Application to Power System Protection	16 th – 20 th May 2016	EEE Dept.,VNR Vignana Jyothi Institute of Engineering & Technology Bachupally, Nizampet (SO), Hyderabad - 500 090
Synchrophasor Measurement Units (PMUs) Application in power system protection	4 th Feb 2016	EEE Dept., GMRIT, Rajam, Srikakulam district, Andhra Pradesh.
Synchrophasor Measurement Units (PMUs)	19 th Sep 2015	EEE Dept., Bapatla Engineering college, Bapatla, Guntur, Andhra Pradesh
Introduction and exploration of Arduino microcontrollers	15 th – 19 th June 2015	EEE Dept., MVGR College of Engineering, Vizianagaram, Andhra Pradesh
Phasor Measurement Units Applications in Power systems	21 st -22 nd Nov 2014	EEE Dept., MVGR College of Engineering, Vizianagaram,Andhra Pradesh

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Smart Grid Technologies	26 th April 2014	EEE Dept., NIT, Trichy
Phasor Measurement Units	16 th – 17 th March 2011	EEE Dept., NIT, Trichy
Virtual Instruments using LabVIEW	1 st – 4 th Aug 2008	EEE Dept., IIT, Delhi
MATLAB application to Digital signal processing and TMS 320 C 6713 DSP Processor	16 th – 22 nd June 2008	EEE Dept., BIT, Mesra
TMS 320 C 6713 DSP Processor	31 st March – 2 nd April 2007	EEE Dept., BIT, Mesra
Digital signal processing	6 th – 18 th Dec 2004	EEE Dept., BIT, Mesra

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization
Senior Member-2013	IEEE

20. Publications

A) Refereed Research Journals:

1. Mariselvam Arumuga, **M. Jaya Bharata Reddy**, "Distance Protection Methodology for Detection of Faulted Phase and Fault Along With Power Swing Using Apparent Impedance", *IEEE Access*, Vol.10,pp.43583-43597,2022. (SCI) ISSN: 2169-3536.
2. K Karthikeyan, V Mariappan, R Anish, P Sarafoji, **M. Jaya Bharata Reddy**, "Experimental study on the charging and discharging behaviour of capric-lauric acid/oleic acid mixture in a cold thermal energy storage system for cold storage applications", *Journal of Materials Today: Proceedings* (Elsevier publication), Vol. 46, no. 19, pp. 10022-10029,2021. (SCOPUS) ISSN: 2214-7853
3. K. Jnaneswar,B. Mallikarjuna,S. Devaraj,Diptendu Sinha Roy, **M. Jaya Bharata Reddy** and D. K. Mohanta "A real-time DWT and traveling waves-based multi-functional scheme for transmission line protection reinforcement", *Electrical Engineering (Springer publication)*, Vol. 103, no.2, pp. 965-981. April 2021. (SCI/SCIE) ISSN: 1432-0487.
4. B. Mallikarjuna, Rishabh Devagupta,**M. Jaya Bharata Reddy**,D.K. Mohanta, "Synchrophasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring", *IEEE Sensors Journal*, Vol. 20, no. 15, pp. 8213 - 8222. 2020 (SCIE) ISSN: 1530-437X
5. Soham Dutta,**M.Jaya Bharata Reddy**, D.K. Mohanta M. S. Kushwah , P.K. Sadhu, "µPMU based Intelligent Island Detection – The first crucial step towards enhancing grid resilience with microgrid", *IET Smart Grid*, Vol. 3, no. 2, pp. 162-173. 2020. (SCOPUS) ISSN: 2515-2947.
6. B. Mallikarjuna,**M.Jaya Bharata Reddy**, "Synchrophasor Measurements Assisted System Integrity Protection Scheme for Smart Power Grid", *Journal of Control Automation and Electrical Systems (Springer publication)*, Vol. 31, no. 1, pp 207-225. 2020. (ESCI) ISSN: 2195-3880.
7. Diptak Pal, B. Mallikarjuna, P.Gopakumar, **M. Jaya Bharata Reddy**, B.K.Panigrahi and D.K.Mohanta, "Probabilistic study of Undervoltage Load Shedding Scheme to mitigate the impact of Protection System Hidden Failures", *IEEE Systems Journal*, Vol. 14, no. 1, pp 862-869. March 2020. (SCIE) ISSN: 1932-8184.
8. B. Mallikarjuna,P.Gopakumar,Diptendu Sinha Roy,**M.Jaya Bharata Reddy**,"A Real-Time Synchronized Harmonic Phasor Measurements-Based Fault Location Method for Transmission Lines", *Journal of Control Automation and Electrical Systems (Springer publication)*, Vol. 30, no. 6, pp 1082–1093. December 2019 (ESCI) ISSN: 2195-3880.
9. Anmol Dwivedi, B. Mallikarjuna, Diptak Pal,**M. Jaya Bharata Reddy** and D.K.Mohanta, "A Real-Time Synchrophasor Based Zone-3 Supervision of Distance Relays Under Load Encroachment Condition", *IEEE*

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Systems Journal, Vol. 13 , no. 4,pp 4227 – 4235, Dec. 2019. (SCIE) ISSN: 1932-8184.

10. D.K. Mohanta, M.JayaBharata Reddy, Yuan Liao, Anurag Srivastava and Sandro Corsi, “Guest Editorial: Emerging Trends In System Integrity Protection Schemes (SIPS) for Improving the Performance of Smart Grid”, *IET Generation Transmission & Distribution*, Vol. 13, no. 8, pp 1191-1193, April 2019. (SCI/SCIE) ISSN: 1751-8687.
11. B. Bijukumar, A. G. Kaushik Raam, G. Saravana Ilango, C. Nagamani, **M. Jaya Bharata Reddy**, “MPPT Algorithm for Thermoelectric Generators Based on Parabolic Extrapolation”, *IET Generation Transmission & Distribution*, Vol. 13, no. 6, pp 821-828, March 2019. (SCI/SCIE) ISSN: 1751-8687.
12. Diptak Pal, B. Mallikarjuna, **M. Jaya Bharata Reddy** and D.K.Mohanta, "Analysis and Modelling of Protection System Hidden Failures and its impact on Power System Cascading Events", *Journal of Control Automation and Electrical Systems* (Springer publication), Vol. 30, no. 2, pp 277-291, Feb 2019. (ESCI) ISSN: 2195-3880.
13. V. Chandrasekar, M. Chakkarapani, **M. Jaya Bharata Reddy**, G. Saravana Ilango, C. Nagamani, “Enhanced Power Output from the PV with Low Input Ripple DC-DC Converter”, *Electric Power Components and Systems* (Taylor & Francis Publications), Vol. 46, no. 11-12, pp 1288–1299, 2018. (SCIE) ISSN: 1532-5008.
14. P. Gopakumar, B. Mallikarjuna, M. Jaya Bharata Reddy and D.K Mohanta, “Remote Monitoring System for Real Time Detection and Classification of Transmission Line Faults in a Power Grid using PMU Measurements”, *Protection and Control of Modern Power Systems* (Springer publication), Vol. 3, no. 16, pp 1-10, Dec 2018. (SCOPUS) ISSN: 2367-0983.
15. B. Mallikarjuna, P. Shanmukesh, D. Anmol, **M. Jaya Bharata Reddy** and D.K Mohanta, “PMU based adaptive zone settings of distance relays for protection of multi-terminal transmission lines”, *Protection and Control of Modern Power Systems* (Springer publication), Vol.3,no.12,pp. 1-15, Dec 2018. (SCOPUS) ISSN: 2367-0983.
16. Soham Dutta, P.K. Sadhu, **M. Jaya Bharata Reddy** and D.K. Mohanta, “Shifting of Research Trends in Islanding Detection Method - A Comprehensive Survey”, *Protection and Control of Modern Power Systems* (Springer publication), Vol.3,no.1,pp. 1-20, Dec 2018. (SCOPUS) ISSN: 2367-0983.
17. P. Rajaraman, N.A. Sundaravaradan, B. Mallikarjuna, **M. Jaya Bharata Reddy** and D.K Mohanta, “Robust Fault Analysis in Transmission Lines Using Synchrophasor Measurements”, *Protection and Control of Modern Power Systems* (Springer publication), Vol. 3, no. 14, pp 1-13, Dec 2018. (SCOPUS) ISSN: 2367-0983.
18. Soham Dutta, P.K. Sadhu, **M. Jaya Bharata Reddy** and D.K. Mohanta, “Smart Inadvertent Islanding Detection employing p-type μ PMU for an Active Distribution Network”, *IET Generation Transmission & Distribution*, Vol. 12, no. 20, pp 4615 – 4625, Nov. 2018. (SCI/SCIE) ISSN: 1751-8687.
19. Anand Kumar, P.K. Sadhu, D.K. Mohanta and M. Jaya Bharata Reddy, “An effective switching algorithm for single phase matrix converter in induction heating applications”, *Electronics (Switzerland)* Vol. 7, no. 8, Article number 149, August 2018. (SCIE) ISSN: 2079-9292.
20. B. Mallikarjuna, D. Chatterjee, **M. Jaya Bharata Reddy** and D.K Mohanta, “Real-Time Wide-Area Disturbance Monitoring and Protection Methodology for EHV Transmission lines”, *INAE letters* (Springer publication), Vol. 3, no. 2, pp 87-106, June 2018.
21. N A. Sundaravaradan, and **M. Jaya Bharata Reddy**, “How is Earthing done?” *IEEE Potentials*, Vol. 37, no. 2, pp. 42-46, March-April 2018. (SCOPUS) ISSN: 0278-6648.
22. Diptak Pal, Rounak Meyur, Santhosh Menon, **M. Jaya Bharata Reddy** and D K Mohanta “Real Time Condition Monitoring of Substation Equipment Using Thermal Cameras”, *IET Generation Transmission & Distribution*, Vol. 12, no. 4, pp. 895-902, Feb 2018. (SCI/SCIE) ISSN: 1751-8687
23. B. Pradeep Kumar, G. S Ilango, **M. Jaya Bharata Reddy**, C.N. Nagamani, “Online Fault Detection and Diagnosis in Photovoltaic Systems Using Wavelet Packets”, *IEEE Journal of Photovoltaics*, Vol. 8, no.1, pp. 257-265, Jan. 2018. (SCIE) ISSN: 2156-3381

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24. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta, “Phasor Measurement Sensor Based Angular Stability Retention System for Smart Power Grids with High Penetration of Microgrids” , *IEEE Sensors Journal*, Vol. 18, no.2, pp.764-772, Jan. 2018.(SCIE) ISSN: 1530-437X
25. Diptak Pal, B.Mallikarjuna, R.Jayakumar Reddy, **M. Jaya Bharata Reddy** and D.K. Mohanta, “Synchrophasor Assisted Adaptive Relaying Methodology to Prevent Zone-3 Mal-operation During Load Encroachment”,*IEEE Sensors Journal*, Vol.17,no.23,pp. 7713-7722,Dec 2017.(SCIE) ISSN: 1530-437X
26. B. Mallikarjuna, P.V. Vardhan Varma, S. D. Samir Kumar, **M. Jaya Bharata Reddy** and D.K.Mohanta, “ An Adaptive Supervised Wide-Area Backup Protection Scheme for Transmission Lines Protection” Protection and Control of Modern Power Systems (*Springer publication*), Vol.2,no.22,pp. 1-16,Dec 2017. (SCOPUS) ISSN: 2367-0983
27. SP Jainaveen, **M. Jaya Bharata Reddy** and D.K. Mohanta, “Automatic License Plate Detection using Adaptive Neuro Fuzzy Inference System and Wavelet Packets” Australian Journal of Multi-Disciplinary Engineering (Taylor & Francis Publications), Vol.13,no.1,pp. 2-17,Oct 2017.
28. Umesh K. Shinde,Sumant G. Kadwane,S. P. Gawande,**M. Jaya Bharata Reddy** and D.K.Mohanta, “Sliding Mode Control of Single-Phase Grid-Connected Quasi-Z-Source Inverter”, *IEEE Access*, Vol.5,pp. 10232 – 10240,May 2017. (SCIE) ISSN: 2169-3536
29. **M. Jaya Bharata Reddy**, Rounak Meyur, Diptak Pal , C. Krantikumar and D. K. Mohanta. “An Online geographical information system-based Condition Monitoring System for 11 kV Distribution Line Insulator”, *IEEE Electrical Insulation Magazine*, Vol. 33, Issue 3, pp.26-32, May 2017. (SCIE) ISSN: 0883-7554
30. N. A. Sundaravaradan, P. Rajaraman,Rounak Meyur, B. Mallikarjuna, **M. Jaya Bharata Reddy** and D. K. Mohanta, “Real-Time Fault Analysis of Transmission Lines Using Wavelet Multi Resolution Analysis Based Frequency Domain Approach, *IET Science Measurement and Technology*, Vol.10, Issue 7, pp. 693-703, Sep 2016. (SCI/SCIE) ISSN: 1751-8822
31. **M. Jaya Bharata Reddy**, P. Gopakumar and D. K. Mohanta “A Novel Transmission Line Protection Using DOST and SVM”, *Engineering Science and Technology-an International Journal-JESTECH (Elsevier publication)*, Vol.19, Issue 2, pp. 1027-1039, June 2016. (ESCI) ISSN: 2215-0986
32. P. Rajaraman, N A. Sundaravaradan, M. Rounak, **M. Jaya Bharata Reddy** and D. K. Mohanta, “Fault Classification In Transmission Lines using Wavelet Multiresolution Analysis" *IEEE Potentials* , Vol.35, Issue 1, pp. 38-44, Jan-Feb. 2016. (SCOPUS) ISSN: 0278-6648
33. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta “Transmission line fault detection and localisation methodology using PMU measurements”, *IET Generation, Transmission & Distribution*, Vol.9, Issue 11, pp. 1033-1042, Aug. 2015. (SCI/SCIE) ISSN: 1751-8687
34. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta , A Novel Topological Genetic Algorithm Based PMU Placement and Scheduling Methodology for Enhanced State Estimation, *Electric Power Components and Systems* (Taylor & Francis Publications), Vol.43, Issue 16, pp. 1843-1858, Aug. 2015. (SCIE) ISSN: 1532-5008
35. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta “Pragmatic Multi-Stage Simulated Annealing for Optimal Placement of Synchrophasor Measurement Units in Smart Power Grids”, *Frontiers in Energy (Springer publication)*, Vol. 9, Issue 2,pp.148-161, June 2015. (SCIE) ISSN: 2095-1701
36. C. Nagamani, G. Saravana Ilango, **M. Jayabharata Reddy**, M. A. Asha Rani and Z. V. Lakaparampil,“Renewable Power Generation Indian Scenario - A Review”, *Electric Power Components and Systems* (Taylor & Francis Publications), Vol.43, Issue 8-10, pp. 1205-1213, May 2015. (SCIE) ISSN: 1532-5008
37. C.K.Aravind, G.Saravana Ilango, C.Nagamani and **M. Jaya Bharata Reddy** “A control strategy for Hybrid Autonomous Power System (HAPS) with a Battery Management Scheme (BMS)”, *Electric Power Components and Systems* (Taylor & Francis Publications), Vol.43, Issue 8-10, pp. 1159-1172, May 2015. (SCIE) ISSN: 1532-5008

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38. S. Sarojini Mary, S. Senthil Kumar, Syam Prasad Poluru, and M. **Jaya Bharata Reddy**, “A Dual DC Output Power Supply for a Stand-Alone Photo voltaic System”, *Electric Power Components and Systems* (Taylor & Francis Publications), Vol.43, Issue 8-10, pp. 939-950, May 2015. (SCIE) ISSN: 1532-5008
39. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta “Fault Detection and Localization Methodology for Self-healing in Smart Power Grids Incorporating PMUs”, *Electric Power Components and Systems* (Taylor & Francis Publications), Vol.43, Issue 6, pp. 695-710, March.2015. (SCIE) ISSN: 1532-5008
40. Deepak Kumar, D. K. Mohanta and **M. Jaya Bharata Reddy** “ Intelligent optimization of renewable resource mixes incorporating the effect of fuel risk, fuel cost and CO2 Emission”, *Frontiers in Energy (Springer publication)*, Vol.09, Issue 1, pp.91-105, March.2015. (SCIE) ISSN: 2095-1701
41. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta “Adaptive Fault Identification and Classification Methodology for Smart Power Grids Using Synchronous Phasor Angle Measurements”, *IET Generation, Transmission & Distribution*, Vol.09, Issue 2, pp.133-145, Feb.2015. (SCI/SCIE) ISSN: 1751-8687
42. **M. Jaya Bharata Reddy**, D.Venkata Rajesh, P. Gopakumar, and D. K. Mohanta, “Smart Fault Location for Smart Grid Operation Using Remote Telemetry Unit (RTU) and Computational Intelligence Techniques”, *IEEE Systems Journal*, Vol.08, Issue 4, pp.1260-1271, Dec.2014.(SCIE) ISSN: 1932-8184
43. **M.Jaya Bharata Reddy**, K. Sagar and D.K Mohanta, “A Multifunctional Real Time Power Quality Monitoring System using Stockwell Transform, *IET Science Measurement and Technology*, Vol.8, Issue 4, pp.155-169, July.2014. (SCI/SCIE) ISSN: 1751-8822
44. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta, " Stability Control of Smart Power Grids with Artificial Intelligence and Wide Area Synchrophasor Measurements" *Electric Power Components and Systems* (Taylor & Francis Publications), Vol.42, Issue 10, pp.1095-1106, June.2014. (SCIE) ISSN: 1532-5008
45. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta, " Stability Concerns in Smart Grid with Emerging Renewable Energy Technologies" *Electric Power Components and Systems* (Taylor & Francis Publications), Vol.42, Issue 3-4, pp.418-425, Feb.2014. (SCIE) ISSN: 1532-5008
46. P. Gopakumar, G. Surya Chandra, **M. Jaya Bharata Reddy** and D. K. Mohanta," Optimal Redundant Placement of PMUs in Indian Power Grid – Northern, Eastern and North-Eastern Regions", *Frontiers in Energy (Springer publication)*, Vol.7, Issue 4, pp. 413-428, Dec. 2013. (SCIE) ISSN: 2095-1701
47. P. Gopakumar, G. Surya Chandra, **M. Jaya Bharata Reddy** and D. K. Mohanta,"Optimal Placement of PMUs for the Smart Grid Implementation in Indian Power Grid - A Case Study", *Frontiers in Energy (Springer publication)*, Vol.7, Issue 3, pp. 358-372, Sep. 2013. (SCIE) ISSN: 2095-1701
48. Krishnavel, D. K. Mohanta and **M. Jaya Bharata Reddy** , "Well-Being Analysis of Generator Step-Up (GSU) Transformer Insulation Incorporating the Impact on Power Generation Using Fuzzy Logic", *Frontiers in Energy (Springer publication)*, Vol.7, Issue 3, pp. 288-299, Sep. 2013. (SCIE) ISSN: 2095-1701
49. **M.Jaya Bharata Reddy**, D.Venkata Rajesh and D.K.Mohanta,"Robust Transmission Line Fault Classification Using Wavelet Multiresolution Analysis", *Computers & Electrical Engineering (Elsevier publication)*, Vol.39, Issue 4, pp. 1219-1247,May 2013. (SCIE) ISSN: 0045-7906
50. **M. Jaya Bharata Reddy**, Karthik Chandra B and D. K. Mohanta, "Condition Monitoring of 11 kV Distribution System Insulators Incorporating Complex Imagery Using Combined DOST-SVM Approach", *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol.20, Issue 2 pp. 664-674, April 2013. (SCI/SCIE) ISSN: 1070-9878
51. **M. Jaya Bharata Reddy**, Rama Krishnan Raghupathy, K.P. Venkatesh and D.K. Mohanta, "Power quality analysis using Discrete Orthogonal S-transform (DOST) ", *Digital Signal Processing (Elsevier Publication)*, Vol.23, Issue 2 pp. 616-626,2013,March 2013. (SCI/SCIE) ISSN: 1051-2004
52. **M. Jaya Bharata Reddy**, B. Karthik Chandra, D. K. Mohanta, “A DOST Based Approach for the Condition Monitoring of 11 kV Distribution Line Insulators”, *IEEE Transactions on Dielectrics and Electrical Insulation*, Vol. 18, Issue 2, pp. 588-595, April 2011. (SCI/SCIE) ISSN: 1070-9878

National Institute of Technology, Tiruchirappalli

Performa for CV of M. Jaya Bharata Reddy

53. **M. Jaya Bharata Reddy** and D. K. Mohanta, “A Modular Approach for Classification and Location of Arcing and Non- Arcing Faults on Transmission Lines” *International journal of Energy Technology and Policy,(Inderscience publication.)*, Vol. 7, No.4, pp. 309-324, 2011. (SCOPUS) ISSN: 1472-8923
54. **M. Jaya Bharata Reddy** and D. K. Mohanta, “A Wavelet- Support Vector Machine Combined Approach for Location of Transmission Line Faults”, *Australian Journal of Electrical and Electronics Engineering (Taylor & Francis Publications)*, Vol.6, No.1, 2009. (SCOPUS) ISSN: 1448-837X
55. **M. Jaya Bharata Reddy** and D. K. Mohanta, “Reply to Discussion on “A Wavelet-neuro-fuzzy Combined Approach for Digital Relaying of Transmission Line Faults” by Tarkan Erdik and Zekai Sen”, *Electric Power Components and Systems (Taylor & Francis Publications)*, Volume 36, Number 12, pp 1390-1394, December 2008. (SCIE) ISSN: 1532-5008
56. **M. Jaya Bharata Reddy** and D. K. Mohanta, “A DSP Based Frequency Domain Approach for Classification of Transmission Line Faults” *Digital Signal Processing (Elsevier Publication)*, Vol.18, No.5, Sep 2008. (SCI/SCIE) ISSN: 1051-2004
57. **M. Jaya Bharata Reddy** and D. K. Mohanta, “Performance Evaluation of Adaptive Network Based Fuzzy Inference System Approach for Location of Faults on Transmission Lines Using Monte Carlo Simulation”, *IEEE Transactions on Fuzzy Systems*, Vol.16,No.4, Aug 2008. (SCI/SCIE) ISSN: 1063-6706
58. **M. Jaya Bharata Reddy** and D. K. Mohanta, “Adaptive -Neuro-Fuzzy Inference System Approach for Transmission Line Fault Classification and Location Incorporating Effects of Power Swings”, *IET Generation, Transmission & Distribution* , Vol. 2, No.2, pp. 235–244,2008. (SCI/SCIE) ISSN: 1751-8687
59. **M. Jaya Bharata Reddy** and D. K. Mohanta, “A Wavelet-Neuro–Fuzzy Combined Approach for Digital Relaying of Transmission Line Faults”, *Electric Power Components and Systems (Taylor & Francis Publications)*, Volume 35, Number 12, pp 1385-1407, December 2007. (SCIE) ISSN: 1532-5008
60. **M. Jaya Bharata Reddy** and D. K. Mohanta, “A Wavelet-Fuzzy Combined Approach for Classification and Location of Transmission Line Faults”, *International Journal of Electrical Power & Energy Systems (Elsevier Publication)*, Volume 29, Issue 9, pp 669-678, November 2007. (SCIE) ISSN: 0142-0615
61. **M. Jaya Bharata Reddy**, D. K. Mohanta and B.M.Karan “Power System Disturbance Recognition Using wavelet and S-transform Techniques”, *International Journal of Emerging Electric Power Systems*, Vol.1, Issue.2, pp.1-16, December 2004. (ESCI) ISSN: 1553-779X

Conferences/Workshops/Symposia Proceedings

1. Asha Rani, M.A., Chakkarapani, M., Nagamani, C., Saravana Ilango, G., Jaya Bharata Reddy, M., “Performance Evaluation of R-PLL for Robust Sensorless Operation of DFIG under Harmonics, DC Offset and Phase Jump in Grid Voltage”, ICPEE 2021 - 2021 1st International Conference on Power Electronics and Energy, 2nd-3rd Jan 2021, KIIT, Bhubaneswar,India. (SCOPUS).
2. Rishabh Devagupta, K T Sai Akhil, N Sai Suprabhath, P Kritesh, B Mallikarjuna, M Jaya Bharata Reddy, D K Mohanta and Diptendu Sinha Roy,” Dynamic State Estimation of Synchronous Generator Rotor Angle Using PMU and EKF under Stressed conditions”, International Conference on ‘Emerging Trends for Smart Grid Automation and Industry 4.0’ (ICETSGAI4.0 2019), 5th-7th December 2019,BIT,Mesra,Ranchi,India. (SCOPUS)
3. K Jnaneswar, S Devaraj, B Mallikarjuna, M Jaya Bharata Reddy and D K Mohanata, “EHV/UHV Transmission Line Protection Using Traveling Waves”, International Conference on ‘Emerging Trends for Smart Grid Automation and Industry 4.0’ (ICETSGAI4.0 2019), 5th-7th December 2019,BIT,Mesra,Ranchi,India. (SCOPUS)
4. S Dutta,S Verma, P K Sadhu, M.Jaya Bharata Reddy and D K Mohanta, “Islanding detection in a distribution system: A pattern assessment based approach using Concordia analysis”,2019 20th International Conference on Intelligent System Application to Power Systems (ISAP),10-14 December 2019, IIT Delhi, India. (SCOPUS)

National Institute of Technology, Tiruchirappalli

Performa for CV of M. Jaya Bharata Reddy

5. S. Verma, Soham Dutta, P.K. Sadhu, M. Jaya Bharata Reddy and D.K Mohanta, "Islanding detection using bi-directional energy meter in a DFIG based active distribution network", International Conference on Computer, Electrical & Communication Engineering (ICCECE), 18th -19th January 2019, Kolkata, WestBengal, India. (SCOPUS)
6. P. Gopakumar, B. Mallikarjuna and **M. Jaya Bharata Reddy**, "Recent Trends on Performance Analysis of Latency on Wide Area Technologies in Smart Grids", 20th National Power Systems Conference (NPSC - 2018), 14th-16th Dec 2018, NIT Trichy, India. (SCOPUS)
7. B. Mallikarjuna, S. Anil, **M. Jaya Bharata Reddy** and D.K. Mohanta, "PMU based Distance Protection Methodology to Avert Malfunction due to FACTS controllers", 20th National Power Systems Conference (NPSC -2018), 14th-16th Dec 2018, NIT Trichy, India. (SCOPUS)
8. S.K. Sahu, M.K. Anant, D. K. Mohanta, **M. Jaya Bharata Reddy**, R.C. Jha and D. Ghosh, "Fuzzy Reliability Analysis of Unit Commitment Problem Considering Uncertain Outage Replacement Rate and Load Representation", 20th National Power Systems Conference (NPSC -2018), 14th-16th Dec 2018, NIT Trichy, India. (SCOPUS)
9. Anmol Dwivedi, Kotni Tirumala Sai Akhil, Nibhanupudi Sai Suprabhath, B. Mallikarjuna, **M. Jaya Bharata Reddy** and D.K. Mohanta, "Real-Time Implementation of Phasor Measurement Unit Using NI CompactRIO", 2017 IEEE International Conference on Advances in Electrical Technology for Green Energy (ICAETGT'17), 23rd September 2017, Coimbatore, India. (WOS) (SCOPUS)
10. Nitish Kumar, Dusmanta Kumar Mohanta, **M. Jaya Bharata Reddy**, Enakshi Kispotta and Dulal Hansda, "Efficiency Enhancement of Thermal Power Plants Using Refrigerant-R600a in Condenser Section", IEEE International Conference on Innovations in Green Energy and Health Care Technologies (IGEHT 2017), 16 - 18 March, 2017, Coimbatore, India. (WOS) (SCOPUS)
11. B. Mallikarjuna, Rounak Meyur, Diptak Pal, **M. Jaya Bharata Reddy** and D.K. Mohanta, "An Adaptive Secure-Dependable Wide-Area Backup Protection Scheme for Transmission Lines Using Multi-Phasor Measurement Units", IEEE International conference on power electronics, drives and energy systems (PEDES2016) 14-17 December 2016, Trivandrum, Kerala, India. (WOS) (SCOPUS)
12. Rounak Meyur, Diptak Pal, N.A. Sundaravaradan, P. Rajaraman, K.V.V.S. Srinivas, **M. Jaya Bharata Reddy** and D.K. Mohanta, "A Wavelet-Adaptive Network Based Fuzzy Inference System for Location of Faults in Parallel Transmission Lines", IEEE International conference on power electronics, drives and energy systems (PEDES2016) 14-17 December 2016, Trivandrum, Kerala, India. (WOS) (SCOPUS)
13. B. Mallikarjuna, P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta, "A Case Study on Optimal Phasor Measurement Unit Placement for Emerging Indian National Smart Grid", International conference on Signal Processing, Communication, Power and Embedded System (SCOPE)-2016, Oct 3-5, 2016, Paralakhemundi, Odisha, INDIA. (SCOPUS)
14. N.A. Sundaravaradan, Rounak Meyur, P. Rajaraman, B. Mallikarjuna, **M. Jaya Bharata Reddy** and D. K. Mohanta, "A Wavelet Based Novel Technique for Detection and Classification of Parallel Transmission Line Faults" International conference on Signal Processing, Communication, Power and Embedded System (SCOPE)-2016, Oct 3-5, 2016, Paralakhemundi, Odisha, INDIA. (SCOPUS)
15. Aditie Garg, Aditi Sinha, **M. Jaya Bharata Reddy** and D. K. Mohanta, "Detection of Islanding in Microgrid Using Wavelet-MRA", 2015 IEEE International Conference on Power, Control, Communication and Computational Technologies for Sustainable Growth (PCCCTSG), December 11-12, 2015, Kurnool, Andhra Pradesh, India. (WOS) (SCOPUS)
16. Sundaravaradan N A, Rajaraman P, Suzith D, Dilip Kumar M, Abilash G, **M. Jaya Bharata Reddy** and D. K. Mohanta, "Wavelet Based Transmission Line Fault Analysis : A Literature Survey", 14th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2014), 10-12th May 2014, Poland. (DOI: 10.1109/EEEIC.2014.6835874). (WOS) (SCOPUS)
17. Chakrapani Mishra, D.K. Mohanta and **M. Jaya Bharata Reddy**, "Impact of Adaptive Relaying in Smart Grid", 14th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2014), 10-12th May 2014, Poland. (DOI: 10.1109/EEEIC.2014.6835858). (WOS) (SCOPUS)

National Institute of Technology, Tiruchirappalli

Performa for CV of M. Jaya Bharata Reddy

18. G Deepak, **M. Jaya Bharata Reddy** and D. K. Mohanta,, “Hardware Implementation of Grid Connected PV System With Energy Management Scheme”, 13th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2013), 1-3rd Nov 2013, Poland.(DOI: 10.1109/EEEIC-2.2013.6737930). (WOS) (SCOPUS)
19. K. Ajay Varma, D. K. Mohanta, **M. Jaya Bharata Reddy**, “Applications of Type-2 Fuzzy Logic in Power Systems: A Literature Survey”, 12th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2013), 5-8th May 2013, Poland.(DOI: 10.1109/EEEIC.2013.6549632). (WOS) (SCOPUS)
20. P. Gopakumar , **M Jaya Bharata Reddy** and D. K. Mohanta, “Novel Multi-Stage Simulated Annealing for Optimal Placement of PMUs in Conjunction with Conventional Measurements”, 12th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2013), 5-8th May 2013, Poland.(DOI: 10.1109/EEEIC.2013.6549625). (WOS) (SCOPUS)
21. P.Gopakumar, **M Jaya Bharata Reddy** and D. K. Mohanta “Renewable Energy Utilization using Low Power Micro grid System”, IEEE International Conference on Power, Energy and Control (ICPEC '13),6-8th Feb 2013,India .(DOI: 10.1109/ICPEC.2013.6527755). (SCOPUS)
22. P. Gopakumar, G. Surya Chandra and **M. Jaya Bharata Reddy**, "Optimal placement of phasor measurement units for Tamil Nadu state of Indian power grid", 11th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2012), 18-25th May 2012, Venice (DOI: 10.1109/EEEIC.2012.6221549). (SCOPUS)
23. A. K. Nayak, D. K. Mohanta and **M. Jaya Bharata Reddy** “Generation Reliability Evaluation Incorporating Maintenance Scheduling and Load Forecasting ”, 11th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2012), 18-25th May 2012, Venice (DOI: 10.1109/EEEIC.2012.6221426). (SCOPUS)
24. A. Alam, S. Upadhyay, C. H. Murthy, **M. Jaya Bharata Reddy**, K.C. Jana and D. K. Mohanta, " Reliability evaluation of solar photovoltaic microgrid ", 11th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2012), 18-25th May 2012, Venice (DOI: 10.1109/EEEIC.2012.6221427). (SCOPUS)
25. K. T. Solaiappan, C. H. Murthy, **M. Jaya Bharata Reddy** and D. K. Mohanta," Impact of distributed energy resources on distribution system reliability", 11th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2012), 18-25th May 2012, Venice (DOI: 10.1109/EEEIC.2012.6221534). (SCOPUS)
26. Sagar Kondaveti, **M. Jaya Bharata Reddy** and D. K. Mohanta, “A DSP based frequency domain approach for non-stationary signals using S-Transform”, 10th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2011), 8-11th May 2011, Rome, Italy (DOI: 10.1109/EEEIC.2011.5874664). (SCOPUS)
27. V.V.R.V Chaitanya, D. K. Mohanta and **M. Jaya Bharata Reddy**, “Topological analysis of eastern region of Indian power grid”, 10th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2011), 8-11th May 2011, Rome, Italy (DOI: [10.1109/EEEIC.2011.5874651](https://doi.org/10.1109/EEEIC.2011.5874651)). (SCOPUS)
28. **M. Jaya Bharata Reddy** and D. K. Mohanta, “Detection, classification and localization of power system impulsive transients using S-transform”, 9th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2010), 16-19th May 2010, Wroclaw University of Technology, Poland (DOI: 10.1109/EEEIC.2010.5489944). (SCOPUS)
29. Karthik Chandra B, **M. Jaya Bharata Reddy** and D. K. Mohanta, “Condition Monitoring of 11KV Distribution Line Insulators using Discrete S-trasform”, 9th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2010), 16-19th May 2010, Wroclaw University of Technology, Poland (DOI: 10.1109/EEEIC.2010.5489931). (SCOPUS)
30. Sagar Kondaveti, **M. Jaya Bharata Reddy** and D. K. Mohanta, “Power Quality Analysis on EHV Transmission line Using Modified S-Transform”, 9th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2010), 16-19th May 2010, Wroclaw University of Technology, Poland (DOI: 10.1109/EEEIC.2010.5489936). (SCOPUS)

National Institute of Technology, Tiruchirappalli

Performa for CV of M. Jaya Bharata Reddy

31. Karthikeyan, A. Nagamani, C. Saravana Ilango, G. **M. Jaya Bharata Reddy**, “A constant frequency hybrid exciter for an autonomous wind energy conversion system ”, 9th IEEE International conference on Environment and Electrical Engineering, (EEEIC-2010), 16-19th May 2010, Wroclaw University of Technology, Poland (DOI: 10.1109/EEEIC.2010.5490029). (SCOPUS)
32. D. K. Mohanta, **M. Jaya Bharata Reddy**, Abhishek Singh, Jayant Kumar Papneja, and Shalabh Agarwal , “Distribution System Reliability Evaluation Incorporating the Effect of Voltage Stability Index”, 7th IEEE International conference on Environment and Electrical Engineering ,(EEEIC-2008),5-10th May 2008, Wroclaw University of Technology and Cottbus University of Technology, Poland.
33. Diptendu Sinha Roy, Sathish Kumar Y., **M. Jaya Bharata Reddy**, A. K. Panda and D. K. Mohanta, “Effect of Redundancy on Transmission Protective System Using Digital Relays”, International Conference on power system analysis, control and optimization ,(PSACO-2008),13th – 15th March 2008, Andhra University College of Engineering, Visakhapatnam, India.
34. Piyush Kumar O jha, R.C.Jha, **M. Jaya Bharata Reddy** and D.K. Mohanta, “Portfolio Based Approaches in Generation Planning for Indian Power System”, International Conference on power system analysis, control and optimization ,(PSACO-2008),13th-15th March 2008, Andhra University College of Engineering, Visakhapatnam, India.
35. **M. Jaya Bharata Reddy** , D. K. Mohanta and B. M. Karan, “Power Quality Monitoring Incorporating Power Swing Using S-Transform Software Tool ” International Conference on Trends in Intelligent Electronic Systems, Sathyabama University, Chennai,12-14 ,November 2007.
36. **M. Jaya Bharata Reddy** , D. K. Mohanta and B.M.Karan, “A Wavelet Approach for classification of transmission line faults using soft computing techniques” International conference on power system protection, Power System division, CPRI ,Bangalore, 20-21, February 2007.
37. **M. Jaya Bharata Reddy**, S. Sunil and D. K. Mohanta, “A Wavelet-Fuzzy Combined Approach For Classification And Location Of Transmission Line Faults”, *International Conference on Emerging Trends In Electrical Engineering*, Electrical Engineering Department, Jadavpur University, Kolkata, January 2007.
38. **M. Jaya Bharata Reddy** , D. K. Mohanta and P. Vengala Reddy, “A Wavelet Based Technique For Digital Relaying Of Transmission Line Faults Using Artificial Neural Networks”, *International Conference on Emerging Trends In Electrical Engineering*, Electrical Engineering Department, Jadavpur University, Kolkata, January 2007.
39. **M. Jaya Bharata Reddy** and D. K. Mohanta, “Detection, Localization And Classification Of Power System Oscillatory Transients Using S-Transform”, *International Conference on Emerging Trends In Electrical Engineering*, Electrical Engineering Department, Jadavpur University, Kolkata, January 2007.
40. **M. Jaya Bharata Reddy** , D. K. Mohanta, B.M.Karan,P.K.Sadhu and R.Chakrabarti, “Power system disturbance recognition using wavelet and S-transform techniques” International Conference on soft computing, Bharat Institute of higher education and research, Chennai, 27-28,May,2004.
41. **M. Jaya Bharata Reddy** , D. K. Mohanta, B.M.Karan, P.K.Sadhu and R.Chakrabarti “Power System Disturbance Recognition using STD MRA Techniques” International Conference on Intelligent Signal Processing and Robotics, IIIT, Ahmedabad, 20-23 February2004.
42. D. K. Mohanta, **M. Jaya Bharata Reddy**, B.M.Karan, P.K.Sadhu and R.Chakrabarti, “Power Quality Disturbance Analysis using Wavelet Transform” International Conference on Emerging Technologies 2003, KIIT, Bhubaneswar, 19-21, December, 2003.
43. Diptendu Sinha Roy, Ashim Kumar, **M. Jaya Bharata Reddy**, A. K. Panda, D. K. Mohanta, “Effect of Monitoring Software Reliability on Digital Relay for prediction of Optimum Routine Test Interval”, IEEE National Conference on Computational intelligence ,control and computer vision in robotics & Automation ,(CICCRA-2008), March 10-11, 2008, National Institute of Technology, Rourkela, India
44. D. K. Mohanta, **M. Jayabharata Reddy**, R. C. Jha, T. Ghose, C. K. Panigrahi “Impact Assessment of Renewable Sources Using Portfolio-Based Electricity Generation Planning”, NREPC 07, BIT, Mesra, Ranchi, December 07.

National Institute of Technology, Tiruchirappalli

Performa for CV of M. Jaya Bharata Reddy

45. **M. Jaya Bharata Reddy** , D. K. Mohanta and S. Sunil, “A wavelet based technique for location of transmission line faults using artificial neural networks”, *National Seminar on Recent developments in devices, circuits and communication,NASDEC²-06*, Department of ECE, BIT, Mesra, Ranchi, November 06.
46. **M. Jaya Bharata Reddy** , D. K. Mohanta and P. Vengala Reddy, “Transmission line fault classification using wavelet transform and artificial neural networks”, *National Seminar on Recent developments in devices, circuits and communication,NASDEC2-06*, Department of ECE, BIT, Mesra, Ranchi, November 06.
47. D. K. Mohanta and **M. Jaya Bharata Reddy**, “A Stochastic approach for reliability evaluation of captive power plant”, All India Seminar on Emerging Trends in Power sector, Department of EEE, Birla Institute of Technology, 5-6 August 2006.
48. Arup kumar Goswami, Siddharth Khaitan, **M. Jaya Bharata Reddy** ,D. K. Mohanta and B.M.Karan , “Z-transform method for construction of capacity outage probability table for generation reliability evaluation”, National convention on Automation and Road Map, Gayatri Vidya Parishad College of Engineering, Visakhapatnam, 5-7,February 2005.

B) Patents

1. **M. Jaya Bharata Reddy**,, D. K. Mohanta and B. M. Karan , “A novel power monitoring system for detection, localization and classification of disturbances” , Indian Patent Application No: 612/KOL/2008 (**Granted on 31/12/2012**) **Patent Number : 254882** .
2. **M. Jaya Bharata Reddy** and D. K. Mohanta, “A novel system for detection and classification of power transmission line fault”, Indian Patent Application No: 611/KOL/2008 (**Granted on 16/05/2013**) **Patent Number: 256209**.
3. **M. Jaya Bharata Reddy** , P. Gopakumar , “Real-Time digital fault monitoring system for transmission lines in autonomous power grids and method thereof”, Indian Patent Application No: 201941022285. (**Granted on : 04/02/2022**) **Patent Number : 388584**.

C) Books & Book Chapters

1. D.K.Mohanta and **M.Jaya Bharata Reddy (Editors)**, “Synchronized Phasor Measurements for Smart Grid ”, Power and Energy Series 97,The Institution of Engineering and Technology (IET),U.K ,March 2017.
2. Gopakumar Pathirikkat, **M. Jaya Bharata Reddy** and D. K. Mohanta, “Transmission Line Fault Detection, Classification and Localization in Smart Power Grids using Synchrophasor Measurements”, Edited book by D.K.Mohanta and M.Jaya Bharata Reddy entitled “Synchronized Phasor Measurements for Smart Grid ”, Power and Energy Series 97,The Institution of Engineering and Technology (IET),U.K,March 2017.
3. G. SaravanaIlango, C. Nagamani, M.A. Asha Rani,**M. Jaya Bharata Reddy** and A. Karthikeyan, “Sensor-Less Estimation of Rotor Position In A Doubly Fed Induction Machine ”, Edited book by R.C. Bansal entitled “Handbook of Distributed Generation ”, Springer Science, USA,March 2017.
4. A. Bhargav, **M. Jaya Bharata Reddy** and D.K. Mohanta “Standards and Communication Systems in Smart Grid”, Edited book by Ersan Kabalc and Yasin Kabalc entitled “Smart Grids and their Communication Systems ”, Springer Science, USA,2019.
5. Soham Dutta, P.K. Sadhu, **M. Jayabharata Reddy** and D. K. Mohanta, “Role of Micro Phasor Measurement Unit (μ PMU) for Decision Making Based on Enhanced Situational Awareness of Modern Distribution System”, Edited book by Shady Abdel Aleem, Almoataz Abdelaziz, Ahmed Zobia, and Ramesh Bansal, “Decision Making Applications in Modern Power Systems” Elsevier,USA, 2020.
6. **M. Jayabharata Reddy**, D. K. Mohanta,Deepak Kumar, D.Ghosh, “Advances in Smart Grid Automation and Industry 4.0 Select Proceedings of ICETSGAI4.0”, Lecture Notes in Electrical Engineering book series (LNEE, volume 693), Springer Science, USA,2021.