

National Institute of Technology, Tiruchirappalli

Performa for CV of M. Jaya Bharata Reddy

CURRICULUM VITAE

Brief Profile: M. Jaya Bharata Reddy is an Associate 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 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 two patents. He has published more than 90 journal and conference papers. He received two SERC externally funded projects from Department of Science and Technology (DST), Government of India worth of 120 Lakhs approximately. He has been reviewer for many reputed international journals such as IEEE transactions, IET, Elsevier etc. in the field of power engineering. He has served as Program Committee member for many IEEE international conferences. His current research interests include smart grid, substation automation, wide-area protection, digital relaying, soft computing applications in power system, power quality analysis and power system protection.



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|--------------------------------------|---|
| 1. Name | M. Jaya Bharata Reddy |
| 2. Designation | Associate 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 | Power Systems |

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	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
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	---

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Associate Dean of Research & Consultancy	Institution	2017	Till date
IPR Cell Member	Institution	2016	Till date
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 UG Board of Study	JNTU Anapapuram, Andhra Pradesh	2017	Till date
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	Till date
Associate Editor	IET HV	2017	Till date
Editor	Electric Power Components & Systems (Taylor & Francis)	2013	Till date

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
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

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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. Computer Relaying and Wide-Area Measurement Systems

(iii) Projects guided at Postgraduate level: 30

(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	Department of Science and Technology, Govt. of India	2012	2015	Completed
Design and Development of Solar Photo-Voltaic Powered Cold Storage System	Department of Science and Technology, Govt. of India	2016	2019	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

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

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19 th Feb 2009	Computer Networking – Hardware & Software conducted by M/s. SANAT Technologies, Chennai	National	NIT, Trichy	NIT, Trichy
12 th -13 th March 2009	Practical Aspects of Computer Networking conducted by M/s. EXTREME NETWORKS, Chennai	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
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

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18. Invited Talks delivered

Topic	Date	Inviting Organization
Application of Signals and Systems in Electrical Engineering	23 rd 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
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. 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**, Accepted for Publication.
2. V. Chandrasekar, M. Chakkarapani, **M. Jaya Bharata Reddy**, G. Saravana Ilango, and C.Nagamani, “Enhanced Power Output from the PV with Low Input Ripple DC-DC Converter”, **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Accepted for Publication

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3. B. Bijukumar, A. G. Kaushik Raam, G. Saravana Ilango, C. Nagamani, **M. Jaya Bharata Reddy**, “A Maximum Power Point Tracking Algorithm for Thermoelectric Generators Based on Parabolic Extrapolation”, **IET Generation Transmission & Distribution**, Accepted for Publication.
4. 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, 2018.
5. 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, May 2018.
6. 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, 2018.
7. 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, April 2018.
8. N. A. Sundaravaradan, **M. Jaya Bharata Reddy** and D. K. Mohanta, “How is Earthing done?” **IEEE Potentials**, Vol. 37, no. 2, pp. 42-46, March-April 2018.
9. 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.
10. 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, Jan 2018.
11. 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.
12. 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.
13. 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.
14. 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.
15. S.P. 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.
16. 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, June 2017.
17. **M. Jaya Bharata Reddy**, Rounak Meyur, Diptak Pal, C. Krantikumar and D.K. Mohanta. “An Online GIS-Based Condition Monitoring System for 11 kV Distribution Line Insulators”, **IEEE Electrical Insulation Magazine**, Vol. 33, no. 3, pp.26-32, May 2017.
18. 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

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- Based Frequency Domain Approach,” **IET Science Measurement and Technology**, Vol.10, no. 7, pp. 693-703, 2016.
19. **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 (Elsevier publication)**, Vol.19, no. 2, pp. 1027-1039, June 2016.
 20. 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 Magazine**, Vol.35, no. 1, pp. 38-44, Jan-Feb. 2016.
 21. 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, no. 11, pp. 1033-1042, Aug. 2015.
 22. 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,” **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol.43, no. 16, pp. 1843-1858, Aug. 2015.
 23. 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, no. 2, pp. 148-161, June 2015.
 24. C. Nagamani, G. Saravana Ilango, **M. Jaya Bharata Reddy**, M. A. Asha Rani and Z. V. Lakaparampil, “Renewable Power Generation Indian Scenario - A Review”, **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol.43, no. 8-10, pp. 1205-1213, May 2015.
 25. 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)” **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol.43, no. 8-10, pp. 1159-1172, May 2015.
 26. 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”, **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol.43, no. 8-10, pp. 939-950, May 2015.
 27. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta “Fault Detection and Localization Methodology for Self-healing in Smart Power Grids Incorporating PMUs”, **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol.43, no. 6, pp. 695-710, March 2015.
 28. 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, no. 1, pp.91-105, March 2015.
 29. 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, no. 2, pp.133-145, Feb 2015.
 30. **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, no. 4, pp.1260-1271, Dec 2014.
 31. **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, no. 4, pp.155-169, July 2014.
 32. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta, " Stability Control of Smart Power Grids with Artificial Intelligence and Wide Area Synchrophasor Measurements” **International Journal on**

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- Electric Power Components & Systems (Taylor & Francis Publications)**, Vol.42, no. 10, pp.1095-1106, June 2014.
33. P. Gopakumar, **M. Jaya Bharata Reddy** and D. K. Mohanta, " Stability Concerns in Smart Grid with Emerging Renewable Energy Technologies" **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol.42, no. 3-4, pp.418-425, Feb 2014.
 34. 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, no. 4, pp. 413-428, Dec 2013.
 35. 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, no. 3, pp. 358-372, Sep 2013.
 36. 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, no. 3, pp. 288-299, Sep 2013.
 37. **M.Jaya Bharata Reddy**, D.Venkata Rajesh and D.K.Mohanta,"Robust Transmission Line Fault Classification Using Wavelet Multiresolution Analysis", **Computers and Electrical Engineering (Elsevier publication)**, Vol.39, no. 4, pp. 1219-1247, May 2013.
 38. **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, no. 2 pp. 664-674, April 2013.
 39. **M. Jaya Bharata Reddy**, Rama Krishnan Raghupathy, K.P. Venkatesh and D.K. Mohanta, "Power quality analysis using Discrete Orthogonal S-transform (DOST) ", **International Journal of Digital Signal Processing (Elsevier Publication)**, Vol.23, no. 2 pp. 616-626,2013, March 2013.
 40. **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, no. 2, pp. 588-595, April 2011.
 41. **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.
 42. **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, pp.45 – 54, 2009.
 43. **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", **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol. 36, no. 12, pp 1390-1394, Dec 2008.
 44. **M. Jaya Bharata Reddy** and D. K. Mohanta, "A DSP Based Frequency Domain Approach for Classification of Transmission Line Faults" **International Journal of Digital Signal Processing (Elsevier Publication)**, Vol.18, no.5, pp. 751-761, Sep 2008.
 45. **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, pp.909-919, Aug 2008.
 46. **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.
 47. **M. Jaya Bharata Reddy** and D. K. Mohanta, "A Wavelet-Neuro–Fuzzy Combined Approach for Digital Relaying of Transmission Line Faults", **International Journal on Electric Power Components & Systems (Taylor & Francis Publications)**, Vol. 35, no. 12, pp 1385-1407, Dec 2007.

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48. **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 and Energy Systems (Elsevier Publication)**, Vol. 29, no. 9, pp 669-678, Nov 2007.
49. **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, no. 2, pp.1-16, Dec 2004.

B) Conferences/Workshops/Symposia Proceedings

1. 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.
2. 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.
3. 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
4. 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
5. 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.
6. 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.
7. 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.
8. 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).
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D) Books & Book Chapters

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
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)	2017	978-1-78561-011-0
Gopakumar Pathirikkat, M. Jaya Bharata Reddy and D. K. Mohanta	Transmission Line Fault Detection, Classification and Localization in Smart Power Grids using Synchrophasor Measurements (Synchronized Phasor Measurements for Smart Grid)	Power and Energy Series 97, The Institution of Engineering and Technology (IET), U.K	2017	978-1-78561-011-0
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 (Handbook of Distributed Generation), USA, March 2017.	Springer Science, USA	2017	978-3-319-51342-3