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SAI RAM INSTITUTE OF TECHNOLOGY

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Name : Dr.M.JAGADEESH KUMAR

Designation : Professor

Email : jagadeeshkumar.eee.eee@sairamit.edu.in

Qualification : Ph.D

Specialization : Power Systems

Research Interest : FACTS, Power Electronics, Power Systems



Experience in years : Teaching UG PG Industry

No. of Workshop/Conferences/
FDP attended : Workshop Conferences FDP

No. of Workshop/Conferences/
FDP Organized : Workshop Conferences FDP

Professional Membership	Life Member, Indian Society for Technical Education (ISTE), New Delhi, Life Member IE Member IET
Publications	National : 10 International:15
	Book :
Research Funded Projects	Dr. P. Muthukannan, M. Jagadeesh Kumar, G. Ezhilarasan, P. Balamurugan, "Development of a Transformer less inverter for a photovoltaic based DVR system", CPRI, Bangalore, June 2015 (Submitted)
Patents	M.Jagadeesh Kumar, G. Ezhilarasan, "Saferegulator for speed control of ceiling fans", IPR Ref. No.4312/CHE/2015, Filing date 18.08.15.
Achievements	Cash award for 100% result in Circuit theory & Professional Ethics in Engineering
Any Other Information	Organized 7 days FDTP approved by Anna university for EE 6008 Micro controller based system design in June 2016

List of Publications:-

National conference

1. Jagadeesh Kumar.M, “OPTIMAL REACTIVE POWER PLANNING USING PSO ” conference on Recent Advancements in Operation and Control of large scale Power systems at Annamalai University March 2006
2. Jagadeesh Kumar.M, “Soft Computing Techniques For economic load dispatch” National conference on Power conversion systems Drives and Control Technology Communication and Power systems at PSNA College of Engineering and Technology, March 2007.
3. Jagadeesh Kumar.M, “Particle swarm optimization for optimal power flow with passive congregation” National conference on Intelligent systems and their applications at Sudharsan Engineering College, August 2007.
4. Jagadeesh Kumar.M, “Non Linear Control of STATCOM” National conference on Power Electronics and Renewable Energy Systems at SSN College of Engineering, March 2009.
5. Jagadeesh kumar.M “ Transient Stability Enhancement in Power System Using STATCOM”, National Conference on Advanced Intelligent Techniques in Power and Electronic Systems (AITPES-2011), Sengunthar Engineering College, April 2011.
6. Jagadeesh Kumar.M, “Enhancement of transient stability in multi-machine power system using BFOA” in the National Conference on Intelligent power Electronics Technology held at RMD Engineering College, March 2014.
7. Jagadeesh kumar.M “Supervisory Control of PV System Using Single Stage Inversion Mode With Battery Back-up Unit”, National Conference on Advanced Power System Engineering Applications (APSEA 2015), Saveetha School of Engineering, Saveetha University, March 2015.
8. Jagadeesh kumar.M “SVPWM Controlled Induction Machine for Electrical Vehicles”, Recent Trends in Efficiency Management in Industries-2015 (RTEMI-2K15). Saveetha School of Engineering, Saveetha University, APRIL 2015.

9. M.Jagadeesh kumar “Micro Controller based low tension (LT) Transmission line Protection ” National conference on Innovative Techniques in Power Engineering and Drives (ITPED) April 2016.
10. M.Jagadeesh kumar “Power factor correction using bridgeless modified SEPIC Rectifier with PI Controller in closed loop.” National conference on Innovative Techniques in Power Engineering and Drives (ITPED) April 2016.

Inter National conference

1. Jagadeesh Kumar.M, “SIMULATION TECHNIQUE FOR CONTINGENCY ANALYSIS AND RANKING IN POWER SYSTEM” International conference on Communication and Power systems at Velammal Engineering College, December 2006
2. Jagadeesh Kumar.M, “Soft computing for Voltage stability Analysis on Power System” in the International Conference on Electrical Energy systems & power Electronics in Emerging Economies, SRM University, April 2009.
3. Jagadeesh Kumar.M, Dash.S.S, Arun Bhaskar.M, Subramani.C, “non-linear control of UPFC based on feed-back linearization to enhance transient stability”, presented in International Conference on Swarm, Evolutionary and Memetic Computing (SEMCCO) at SRM University, Chennai on 18th December-2010, published in the proceeding pp 54.
4. Jagadeesh Kumar.M, Dash.S.S, Pilot Immanuvel.A.S., Prasanna.R, “Comparison of FBLC (Feed-Back Linearisation) and PI-Controller for UPFC to enhance Transient Stability”, presented in International Conference on Computer, Communication and Electrical Technology (ICCCET) at National College of Engineering, Tirunelveli on 19th March-2011 and published in the proceeding pp 377-382. **ISBN:978-1-4244-9391-3**
5. Jagadeesh Kumar.M, Jameenabegam.S, “Enhancement of transient stability in multi-machine power system using FACTS devices” in the International Conference on Innovations in Intelligent Instrumentation, Optimization & Signal Processing held at Karunya University, 2013.

International journal

1. **M.Jagadeesh kumar**, S.S. Dash, M.ArunBhaskar, C.Subramani and Vivek, 'Comparison of PSO Tuned Feedback Linearisation Controller (FBLC) and PI Controller for UPFC to Enhance Transient Stability', LNCS –Springer pp-135-142,2011.
2. **M.Jagadeeshkumar**, Subhransu Sekhar Dash, SubramaniChinnamuthu " Sensitive Area Clustering based on Voltage Stability and Contingency Analyses with Impact of Line Stability Indices" ", International Review on Modelling and Simulation , Vol.6, No.5, Part-B, October 2013,
3. **Jagadeesh Kumar** Muthukrishnan, SubhransuSekhar Dash, Harish KiranSelvakumar and SubramaniChinnamuthu "COMPARISON OF OPTIMIZATION TECHNIQUE TO FIND THE OPTIMAL LOCATION OF FACTS CONTROLLERS FOR TRANSMISSION LINE "American journal of applied sciences 11 (2) : 280-290, 2014 "
4. **M.Jagadeesh Kunar**, S.S. Dash, C.Subramani, M.ArunBhaskar & Akila R.G 'Transient Stability Enhancement of a Multi machine System using BFOA', Advances in intelligent systems and computing'-Springer vol 259 2014.
5. Subramani.C, Dash.S.S, **Jagadeesh Kumar.M**, Arun Bhaskar.M, "Stabilty index based voltage collapse prediction and Contingency analysis" Journal of Electrical Engineering and Technology Vol 4 No 4 PP 438-442.
6. **M.Jagadeeshkumar** , G.Ezhilarasan, D.Dilipkumar, K.Saikiran" Power system stability enhancement using STATCOM and UPFC for two bus system" International Journal of Applied Engineering Research (IJAER) Vol. 10 No.4 March 2015, ISSN 0973-4562 Research India Publications
7. **M.Jagadeeshkumar**, G. Ezhilarasan, V.Arundhilipan, A.Aravindakumar "Power Factor Enhancement in PMBLDC Motor Using Bridgeless Buck-Boost Converter" nternational Journal of Applied Engineering Research (IJAER) Vol. 10 No.4 March 2015, ISSN 0973-4562 Research India Publications
8. **3.Jagadeesh Kumar M**, Ezhilarasan G, Balamurugan P, Prakash K , SagarNavin "Identification of Weak Bus Using Soft Computing Techniques" International Journal

of Applied Engineering Research (IJAER) Vol. 10 No.4 March 2015, ISSN 0973-4562 Research India Publications

9. **M.JagadeeshKumar**, G.Ezhilarasan, M.Sivaranjani , A.Ramya,S.AbdulAmjath “PWM Control of seven level Cascaded H-bridge Inverter” International Journal of Applied Engineering Research, ISSN 0973-4562 Vol. 10 No.33 (2015)Research India Publications
10. 5.Sushilkumar G. Ezhilarasan **M.Jagadeesh Kumar** S. Tamilselvi “A Combined Power Quality Conditioner for a Dynamic Voltage Restorer Using a Novel Reference Signal Generation Method” International Journal of Scientific Engineering Research, 2014
11. G.Ezhilarasan, **M.Jagadeeshkumar**, Rajveer Singh Shekhawat, GikdhalWangchukBhutia, Tamil selvi, “Improved Battery Charger Using Zero Voltage Switched Dc-Dc Converter” International Journal of Applied Engineering Research (IJAER) Vol. 10 No.4 March 2015, ISSN 0973-4562 Research India Publications
12. P.Balamurugan , G.Ezhilarasan, **M.Jagadeesh Kumar**, V.DeepakRaghavan, T. Mohammad HaroonAlim “Supervisory Control of PV System Using Single Stage Inversion Mode With Battery Back-up Unit” International Journal of Applied Engineering Research (IJAER) Vol. 10 No.4 March 2015, ISSN 0973-4562 Research India Publications
13. Muquassir Rahman, Sowmiya N, Hariprasad S. Md. Haroon Alim, G. Ezhilarasan, **M. Jagadeesh kumar** “capacitor based energy storage system as a replacement for automobile batteries ” International Journal of Applied Engineering Research (IJAER) Vol.10 No.33April 2015, ISSN 0973-4562 Research India Publications
14. Sushil Kumar, MritunjayPrakash Ravi, Ezhilarasan G , **M.Jagadeeshkumar** “SVPWM Controlled Induction Machine for Electrical Vehicles ” International Journal of Applied Engineering Research (IJAER) Vol.10 No.33April 2015, ISSN 0973-4562 Research India Publications
15. **M.Jagadeesh kumar**, M.Arun, T. Tamizhazhagan, N.Thanigai Arasu “A Novel Approach in Offshore Wind Generation Scheme and Implementation of MEPT and MMPT Methods” International Journal of Applied Engineering Research ISSN 0973-4562 Volume 13, Number 6 (2018) pp. 4555-4560

16. **Jagadeesh Kumar M** , Jayanthi G , Priyadharshni , Subhikshaa S , Sivaranjani K
 “Optimization of energy from photovoltaic cell using three port converter for home appliances” International Journal of Engineering & Technology, 7 (2.12) (2018) 365-369

Workshop:

Sl	Date	Venue	Title	Duration
1	9.2.08	AMS Engg college	Computing conditioning & Controlling techniques applied to Electrical Engg	1 day
2	18/12/08 to 20/12/08	SSN Engg college	Intelligent systems and control	3 days
3	23/2/09 to 24/2/09	VelammalEngg. College	Research methodologies	2 days
4	23/ 9/10& 24/9/10	SRM University	Soft computing techniques for power Engineers	2 days
5	28.8.10	St josephsEngg College	Industrial Automation	1 day
6	15&16.9.11	SRM University	Hardware Implementation of power electronics and Drives	2 days
7	11.11.2011	VelammalEngg. College	VLSI design methodology and tools	1 day
8	11.07.2013	SRM University	Computational intelligence : Theories, Applications and future directions	1 day

FDP

S.No	Date	Venue	Title	Duration
1	16-25.11.2009	Velammal Engg. College	Application of Geomatics in digital Cartography	10 days
2	6-10.6.11	Pondicherry Engg College	Computational Intelligence to power system analysis and design	5 days
3	27/6 -1/7 .11	Velammal Engg. College	Instruction al design and delivery system	5 days
4	7,8.10.11	JeppiarEngg College	Intelligent Computing to clean Energy	2 days
5	12-23.12.11	Velammal Engg. College	Embedded system and its application to power electronics	14 days
6	1.4.13 -6.4.13	SRM University	Computational Intelligence in smart Electric power grid	5 days
7	22.06.17- 23.06.17	KCG college of Technology	Power system Analysis- Using ETAP	2 days