Dr. V. Gomathi

Associate professor, Department of Electrical and Electronics Engineering

Cellphone   : 9884112196

e-Mail ID   : gomesvg@annauniv.edu

Address   : 34, East Chetty street, St.Thomas Mount,Butt Road,
                Chennai 600 016.

Area of Specialisation

- ➢ Smart Grid, Power System, Cloud Computing

Papers Published in Journals

Research Papers Published in International Journals   19
Research Papers Published in National Journals   0

1. GOMATHI VENUGOPAL RAMACHANDRAN V, "SERVICE ORIENTED ARCHITECTURAL MODEL FOR POWER SYSTEM STATE ESTIMATION", JOURNAL OF HIGH PERFORMANCE COMPUTING , published by GEORGIA TECH. Vol. 29, pp. 43-49 (2010).

2. C.Venkatesh Kumar & V.Gomathi, " Power System State Estimation with Interline Power Flow Controller", SELECTED TOPICS in POWER SYSTEMS and REMOTE SENSING, published by ISSN: 1792-5088. pp. 65-69 (2010).

3. GOMATHI VENUGOPAL RAMACHANDRAN V, "CLOUD SERVICES FOR POWER SYSTEM STATE ESTIMATION", EUROPEAN JOURNAL OF SCIENTIFIC RESERACH, Vol. 55, Issue 4, (2011).

4. V Gomathi & V Ramachandran, "ENhanced Distributed Service Model for Power System State Estimation", International Journal on Computer Science and Engineering, published by Engineering Journal Publication. Vol. 3, Issue 2, pp. 481-486 (2011).

5. GOMATHI VENUGOPAL,ANBALAGAN PALANIMUTHU,BALASINGH MOSES, "AN EFFECTIVE DISTRIBUTED MODEL FOR XMLISED POWER SYSTEM DATA GENERATION", JOURNAL OF CIRCUITS SYSTEMS AND COMPUTERS, published by WORLD SCENTIFIC. Vol. 21, Issue 7, pp. 1250053(1-15) (2012).

6. V Senthil Kumar, S Arun Jees , V Gomathi, " Control Techniques for Single Phase Inverter to Interface Renewable Energy Sources with the Microgrid", International Journal of Advanced Research in Electrical,Electronics and Instrumentation Engineering, Vol. 3, Issue 4, pp. 1-11 (2014).

7. V.Gomathi, V. Ramachandran, " Componentized Service oriented Architectural model for Power system problems ", International Review on Computers and Software, published by Praise worthy Prize. Vol. 9, Issue 1, pp. 64 - 73 (2014).

8. V.Gomathi, Arun Babu P.B, "Reliable protective scheme for Integrating Variable capacity Microgrids using Superconducting Fault Current Limiters", International review of Electrical Engineering, published by Praise wothy prize. Vol. 9, Issue 3, pp. 640 - 647 (2014).

9. V. Gomathi, V A KANDAPPAN, "EFFECT OF TIME SYCHRONIZATION ERROR IN PHASOR MEASUREMENT UNIT", International Journal of Applied Engineering Research, published by Research India Publications. Vol. 10, Issue 66, pp. 264 - 269 (2015).

10. V .GOMATHI, S.JOSE INFANT PUVANI, "OPTIMAL POSITIONING OF SUPERCONDUCTING FAULT CURRENT LIMITER IN NEIGHBORING AC AND DC MICROGRID", International Journal of Applied Engineering Research, published by Research India Publications. Vol. 10, Issue 66, pp. 255-263 (2015).

11. Gomath Venugopal, Uma velayutham, "State Estimation Based on Probabilistic Contaminated Exponential Square Method ", International Journal of Applied Engineering Research, published by Research India Publications. Vol. 10, Issue 11, pp. 29445-29455 (2015).

12. Gomathi Venugopal, Uma Velayutham, "Optimal Placement of PMU Based on Vertex Colouring and AVL Tree Technique ", International Journal of Applied Engineering Research, published by Research India Publications. Vol. 10, Issue 6, pp. 13841-13853 (2015).

13. V .Gomathi, ,V.Uma, A.Vijayalakshmi , R.Manimegalai, " Congestion Management in A Deregulated System with Renewable Energy Sources", International Journal of Applied Engineering Research, published by Research India Publications. Vol. 10, Issue 66, pp. 414 - 419 (2015).

14. Uma Velayutham, P.Lakshmi, Gomathi Venugopal, "MINIMIZATION OF COST AND CONGESTION MANAGEMENT USING INTERLINE POWER FLOW CONTROLLER", The International Journal for Computation and Mathematics in Electrical and Electronic Engineering, published by COMPEL. Vol. 35, Issue 5, (2016).

15. Krishnakumar R Vasudevan, Vigna K Ramachandran, Gomathi V, JB Ekanayake, S.K.Tiong, "Modelling and simulation of variable speed pico hydel energy storage system for microgrid applications", Journal of Energy storage, published by Elsevier. Vol. 24, pp. 1-14 (2019).

16. S. Arun Jees & Venugopal Gomathi, " Load forecasting for smart grid using non-linear model in Hadoop distributed file system", Cluster Computing, published by Springer US. Vol. 22, Issue 6, pp. 13533-13545 (2019).

17. krishnakumar R vasudevan , Vigna K Ramachandran, Gomathi V, JB Ekanayake, S.K.Tiong, "Variable Speed Pumped Hydro Storage: A Review of converters controls and energy management strategies", Renewable and Sustainable Energy Reviews, published by Elsevier. Vol. 135, (2020).

18. SUBRAMANIYAN V, GOMATHI V, "POWER MANAGEMENT STRATEGY FOR HYBRID ENERGY SYSTEM WITH PUMPED HYDRO STORAGE", INTERCIENCIA, published by INTERCIENCIA PUBLISHERS. Vol. 45, Issue 10, pp. 19-28 (2020).

19. L. Priya, V. Gomathi, "A Distributed Demand Response Management Algorithm for Multi-Utility Environment in Smart Grid ", IEEE Xplore (International Conference on Mathematics and Computers in Science and Engineering (MACISE), Madrid, Spain, 2020), published by IEEE. pp. 229-235 (2020).

Papers Presented in Programmes

Research Papers Presented in International Programmes   10
Research Papers Presented in National Programmes   9

1. R.Vedhanarayanan, V.Gomathi, "State Estimation for Multi Area Power System" presented in a National level conference on Intelligent Technique in control Optimization and signal Processing , India .

2. V.Gomathi, C.Venkateshkumar, V.Ramachandran, "State Estimation of Power system with Interline Power Flow Controller" presented in a International level conference on International Conference on Control, Communication and power engineering, India .

3. S. Suresh, V.Gomathi, "Real Time Testing of Phasor Measurement Unit in Labview Environment" presented in a National level conference on National Conference on Recent Advances in Engineering and Technology, organised by Sri Muthukumaran Institute of Technology, India .

4. S. Pradeep, V.Gomathi, "Power System State Estimation using Particle Swarm Optimization" presented in a National level conference on National Conference on Soft Computing Techniques in Power System Opweration and Control, organised by VIT University, India .

5. Gomathi .V Bindhu.M.V, "Contingency Analysis For Multi area power system using PMU data" presented in a International level conference on International Conference on Electrical Sciences and Technology Innovations '10, India .

6. "State Estimation in Deregulated Environment" presented in a International level conference on International Conference on Electrical Sciences and Technology Innovations '10, India .

7. Renjith S Chandran and V. Gomathi, "Enhancement of Power System Voltage Stability with STATCOM Using Decoupled Current Control Strategy" presented in a National level conference on National Conference on Power Electronics and Power Systems, organised by St.Joseph's College of Engineering, India from 11-Mar-2009.

8. Gomathi Venugopal and Priyanga Durairaj, "An XML Based Data Exchange Model for State Estimation of Power System" presented in a National level conference on National Conference on Emerging Technologies in Electrical Engineering, organised by Valliammai Engineering College, India from 02-Apr-2010 to 03-Apr-2010.

9. T. Prakash, V.Gomathi, "PMU Positioning Schemes For Enhanced Monitoring and Control" presented in a National level conference on National Conference on Signal and Image Processing, organised by SMK Fomra Institute of Technology, India from 09-Apr-2010 to 10-Apr-2010.

10. V. Gomathi, Bindhu.M.V., "State Estimation in a Deregulated Power System" presented in a National level conference on National Conference on Electrical Sciences and Technology Innovations, organised by Dr.Mahalingam College of Engineering and Technology, India from 12-Apr-2010 to 13-Apr-2010.

11. GOMATHI VENUGOPAL,RAMACHANDRAN V,Chellammal, "Optimal Location of PMUs for Complete Observability of Power System sub network" presented in a International level conference on International Conference on Control, Communication and Power Engineering, Chennai, organised by CCPE -2010, Chennai, India from 28-Jul-2010 to 28-Jul-2010.

12. GOMATHI VENUGOPAL,VENKATESH KUMAR,RAMACHANDRAN V, "Simulation and State Estimation of Power System with Interline Power Flow Controller" presented in a International level conference on UNIVERSITIES POWER ENGINEERING CONFERENCE, organised by CARDIFF UNIVERSITY, UNITED KINGDOM from 31-Aug-2010 to 03-Sep-2010.

13. V. Gomathi, V. Ramachandran, "Optimal Location of PMUs for Complete observability of Power System Network" presented in a International level conference on International Conference on Electrical Energy Systems, India from 03-Jan-2011 to 05-Jan-2011.

14. Gomathi Venugopal, Ramachandran V,Poorani Avila Teresa, "Optimal PMU placement and Observability of Power System using PSAT" presented in a International level conference on International Joint Journal Conference on Engineering and Technology, organised by SSN college of Engineering, Chennai, India from 03-Jan-2011 to 05-Jan-2011.

15. S.M.Reseeda Banu, V. Gomathi, "Comparative Analysis of Different State Estimation methods incorporating PMU measurements" presented in a International level conference on National Conference on Recent Advances in Engineering and Technology, organised by Sri Muthukumaran Institute of Technology, India from 27-Apr-2012.

16. Krishna Prabhat Emani, V.Gomathi, "Simulation of Interline Power Flow Controller with Non Conventional Energy Sources" presented in a National level conference on National Conference on Recent Advances in Engineering and Technology, organised by Sri Muthukumaran Institute of Technology, India from 27-Apr-2012.

17. M.Suresh, Gomathi Venugopal, "Hardware Implementation of Phasor Measrement Unit in Real Time " presented in a National level conference on National Conference on Technological Innovations in Renewable Energy, organised by K.S.R College of Engineering , India from 19-Apr-2013 to 19-Apr-2013.

18. Subramaniyan V, Gomathi V, "Congestion Management in a restructured Power system using Solar Photovoltaics" presented in a International level conference on World Summit on Advances in Science,Engineering and Technology, organised by VIT University and University of Cambridge, India from 04-Jan-2018 to 06-Jan-2018.

19. Rakkesh Kumar J, Dr.V.Gomathi, Arun Jees, on FALSE DATA INJECTION ATTACK DETECTION IN STATE ESTIMATION USING DEEP LEARNING, organised by The Maldives National University, Maldives, Maldives from 30-Nov-2019 to 01-Dec-2019.