

Prof. Dr. Sarat Chandra Tripathy
Director (Academics)

Degree and Honours

- (i) Ph.D. (Electrical Engineering)
Power Electronics, Control and Instrumentation, Power System
- (a) Fellow Institution of Engineers Calcutta (India). 1984
- (b) Fellow Institution of Electrical Engineers, London,(U.K), 1996

Ex-Professor

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Specialization

- (i) Power Electronics
- (ii) Instrumentation and Control

Outline of Career:

Degree	Date	University	Subject of Specialization
B.E.	1960	Indian Institute of Science, Bangalore (India)	Electrical Engineering
M.Sc. (Engg.)	1962	Banaras Hindu University India	Electrical Machine Design
Ph.D.	1970	University of Minnesota U.S.A	Power Electronics

Ph.D. Thesis Title:

Effects of Magnetic Storm on Electric Power System.

Brief Resume of Job Experience

Experience Details

32 years of Teaching and research at Banaras Hindu University (1963-67) and Indian Institute of Technology, Delhi (1971-1998)

Visiting Assignment

(a) 2 years of visiting Professorship at The University of Calgary, Canada (1976-77) and (1981-82)

- (b) 1 year of visiting Professorship at Middle East Technical University, Ankara, Turkey, (1993-94) academic session.
 - (c) 3months of visiting scientist position at Kfk, Karlsruhe, Germany from 1st July 1994-30th Sept. 1994.
 - (d) 3months of visiting Professorship position at Delft University of Technology, Netherlands from 1st May 1996 to 31st July 1996.
 - (e) 10 months of visiting Professorship at Helsinki University of Technology, Helsinki, Finland from August 1998 to May 1999.
 - (f) 1 year of visiting assignment as Senior Engineer at Teollisuuden Voima Oy, Olkiluoto, Finland from June 1999 to May 2000.
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Employment Record

Position	Organization	Date		Nature of Work
		From	To	
Lecturer in Elect.Engg	Banaras Hindu University, India	Oct.1993	Aug.1967	Teaching at Undergraduate Level in EE
Assistant Professor in Elect. Engg	Indian Institute of Technology, Delhi.	May 1971	Dec 1978	Teaching in Post graduate Level in EE
Professor Center for Energy Studies	Indian Institute of Technology, Delhi	Jan 1979	2004	Post-graduate level teaching in Power System and Energy Conservation Group
Co-ordinator Electric Energy System Group	Indian Institute of Technology, Delhi	Jan 1992	Dec 1995	Co-ordination
Head, Centre For Energy Studies	Indian Institute of Technology, Delhi	Sept. 1989	Aug. 1992	Administration of the Centre/ Department.
Professor (EE)	Institute of Technology and Management, Sector-23-A Gurgaon-122017 (Haryana) INDIA	2001	2007	Power Electronics Instrumentation and Control

List of Ph.D. Thesis Supervised

- 1.Dr.M.Y.Khan: Digital Computer study of switching surges in nonlinear power systems, Ph.D. (1974).
2. Dr.N.Saha: Load frequency control of power systems, Ph.D, (1976)
3. Dr.G.Durga Prasad: Digital solution of load flow, optimal load flow and state estimation problems in ill conditioned power systems, Ph.D,(1980)
4. Dr.K.K.Patel:Switching transients in transmission systems Ph.D (1982)
5. Dr.Babu Ram: Dynamic over voltages due to load rejection in power systems, Ph.D (1983)
6. Dr.B.Viswanathan:Some studies on compensated EHV transmission lines, Ph.D 1984
7. Dr.T.S.Bhatti: Interacting excitation and speed governor control of power systems, Ph.D. (1984)
8. Dr,D.S.Chauhan:Static state estimation algorithms using Hessian matrix approach, Ph.D (1985)
9. Dr.M.A.Rasheed:Security monitoring of large scale electric power systems, Ph.D (1986)
10. Dr.Shivanna:Static and fast algorithms for power system transient stability, Ph.D(1986)
11. Dr.S.Bandhopadhyay:Lossy magnetic energy storage systems for improvement of power system stability, Ph.D (1987)
12. Dr.P.S.Chandramohan Nair: Adaptive automatic generation control with electrical energy storage, Ph.D. (1991)
13. Dr.M.Kalantar:Digital Simulation of wind stand-alone and wind diesel isolated power systems, Ph.D. (1992)
- 14.Dr (Mrs)S.R.Lakshmi: Some fast transform methods for power system reliability analysis, Ph.D.(19993)
15. Dr. (Mrs) Sunita Chohan: Static and tracking state estimation in power system with bad data analysis, Ph.D. (1993)
16. Dr.(Mrs) Shashi Bala Malik: Integrated multi level energy systems planning models for rural India, Ph.D.(1994)
- 17.Dr.S.Prasad: Power system transient stability analysis using catastrophe theory, Ph.D. (1995)
18. Dr.M.Ud-Din Mufti: Self-tuning control of wind diesel power generation systems using energy storage Devices, Ph.D. (1998)
- 19.Dr.Amit Jain: Artificial Intelligence Application in Power System, Ph.D. (1999)

SUMMARY OF PAPERS PUBLISHED

Name of Journal	Number of Publication
A. IEEE Transactions of power Apparatus And Systems, IEEE Transactions on energy Conversion.	13
B. IEL Proceedings-Part C (Generation, Transmission and Distribution)	09
C. International Journals on "Electrical Power and energy systems", "Energy Research", "Electric Power system Research", "Electric Machines and Power Systems", "Electrical Engineering Education"	37
D. Journals of Institution of Engineers (India) (Electrical Engineering Division), Other Electrical Journals on Electrical Power Systems.	34
E. Int.J.of Energy Conversion and Management	23
F. International Conference papers	37

Total: 153	

Book Published

. S.C.Tripathy,"Electric Energy Utilisation and Conservation" Tata McGraw Hill Publishing Company Ltd, New Delhi, 1991

Sponsored Research Project (In Progress)

. Principal Investigator: Prof.S.C.Tripathy, "Security Analysis and State Estimation of Power System, "Rs.5.78 Lakhs, sponsored by Central, Board of Irrigation and Power, New Delhi (1995-98)

Membership of Professional Societies

- . Fellow of the Institution of Engineers (India), Calcutta, F.I.E. (India). 1984.
- . Fellow of the Institution of Electrical Engineers, London, F.I.E.E, (London), 1996.
- . Chartered Engineer, C.Eng. (London), 1996.

AWARDS

- Awarded Pandit Mohan Memorial Gold Medal of the Institution of Engineers (India) in 1982.
- Tata Rao Gold Medal of the Institution of Engineers (India) in 1989 for research papers published in Institution Journal.

LIST OF FULL RESEARCH PAPERS PUBLISHED IN INTERNATIONAL

JOURNALS

- 1) S.C.Tripathy, et al, 'Solar induced currents in power systems: cause and effects' IEEE Trans on power apparatus and systems, March/April, 1973.Vol.92.pp.471-477.
- 2) S.C.Tripathy, et al, 'A stable numerical integration method for transmission transients' IEEE Trans on Power apparatus and systems, July/Aug, 1977,Vol.96, pp.1399-1407.
- 3) S.C.Tripathy, et al, Comparison of stability properties of numerical integration methods for switching surges 'IEEE Trans.on Power apparatus and systems, Nov./Dec. 1978, Vol. 97 pp.2318-2325.
- 4) S.C.Tripathy, et al, 'A variable step decoupled state estimator'IEEE Trans.on Power apparatus and systems, March/April 1979, Vol. 98, pp. 436-443.
- 5) S.C.Tripathy, et al, 'Power system static state estimation by the I even burgh- Marquard algorithm', IEEE Trans.on Power apparatus and systems, March/April, 1880, Vol. 99, pp. 695-702.
- 6) S.C.Tripathy, et al, 'Load flow solution of ill-conditioned power systems by a Newton like method', IEEE Trans.on Power apparatus and systems, Vol.101 Sept/Oct., 1982, pp.3648-3657.

- 7) S.C.Tripathy, et al, 'Sampled data automatic generation control analysis with reheat steam turbines and governor dead band effects' IEEE Trans.on power apparatus and systems, May 1984, vol. 103, pp. 1045-1051.
- 8) S.C.Tripathy, et al, 'Numerical Techniques for computing surges in multiphase power system with nonlinear lumped elements', Proc.IEE, vol.121, Dec.1974, pp. 1572-1574.
- 9) S.C.Tripathy, et al, 'Real time monitoring of system using fast decoupled load flow', Proc.IEE, vol.124, July, 1977, pp.602-606.
- 10) S.C.Tripathy, et al, 'Effect load characteristics and voltage regulator speed stabilizing signal on power system dynamic stability', Proc.IEE, vol. 124, July 1977, pp. 613-618.
- 11) S.C.Tripathy, et al, 'Optimization of load frequency control parameters for power system with reheat steam turbines and governor dead band nonlinearity', Proc.IEE, vol129, PtC.Jan,1982, pp.10-16.
- 12) S.C.Tripathy, et al, 'Microprocessor based adaptive load frequency control', Proc.IEE, vol.131 Pt.C.No4, July, pp. 121-128.
- 13) S.C.Tripathy, et al, 'Load flow solution for ill conditioned power system by a quadratically convergent Newton like method', Proc. IEE, vol.127, Sept. 1980, pp. 275-280.
- 14) S.C.Tripathy, et al, 'Temporary over voltage due to load rejection a series compensated transmission line', Proc IEE, vol. 130, Pt C, Jan. 1983, pp. 8-15.
- 15) S.C.Tripathy, et al, 'Control of Dynamic over voltage due to load rejection by static shunt compensation', Electrical Power & Energy Systems, vol.7,No 1,Jan.1985, pp. 29-36.
- 16) S.C.Tripathy, et al, 'Optimization of exciter and speed governor control parameters in stabilizing intersystem oscillations with voltage dependent load characteristics' Int. J. of Electrical Power and Energy Systems, vol. 3, July 1981, pp 127-133.
- 17) S.C.Tripathy, et al, 'Micro machine as a teaching aid to power system simulation study', 'Indian Journal of Technical Education', vol.6, No. 1, April 1979, pp. 42-47.
- 18) S.C.Tripathy, et al, 'An algorithm for transients in transmission system with nonlinear resistive element' International Journal of Electrical Engineering education, Manchester, vol. 11, 1974, pp. 233-243.
- 19) S.C.Tripathy, et al, 'Stability of load frequency control system for interconnected power system with governor dead band non linearity', International Journal of Electrical Engineering Education, Manchester, vol. 13, 1976, pp. 131-140.
- 20) S.C.Tripathy, et al, 'The micro-machine as a teaching aid to power system simulation study' International Journal of Electrical Engineering Education, Manchester, Vol.17, 1980, pp. 39-40.
- 21) S.C.Tripathy, et al, 'Synchronous machine stability at low excitation' Journal of Institution of Engineers, vol. 58 EL 1, Oct. 1967, pp. 141-158.
- 22) S.C.Tripathy, et al, 'Sub optimal regulator for automatic generation control of power system', Journal of Institution of Engineers (India), vol.58, EL 3,Dec. 1977 pp.176-184.
- 23) S.C.Tripathy, et al, 'Interacting optimal voltage regulator and load frequency controller in power system' Journal of Institution of Engineers (India), vol.59, EL 6, June 1979, pp. 327-332.
- 24) S.C.Tripathy, et al, 'State variable model for load frequency control of hydrothermal power systems', Journal of Institution of Engineers (India), vol. 69, EL 6, June 1979, pp. 327-332.
- 25) S.C.Tripathy, et al, 'Effect of governor dead band non linearity on stability of conventional and dynamic load frequency controls', Journal of Institution of Engineers (India), vol.60, EL 4, Jan. 1980, pp. 172-177.
- 26) S.C.Tripathy, et al, 'Digital Computer study of switching surges on series capacitor compensated lines' Journal of Institution of Engineers (India), vol.59. El 2, Oct.1979. pp 340-345.
- 27) S.C.Tripathy, et al, 'Interaction of voltage and frequency control loops and optimization of parameters', Journal of Institution of Engineers (India), vol.62. El 2, Oct.1981. pp 33-39.
- 28) S.C.Tripathy, et al, 'Digital simulation of transient over voltages caused by earth fault on Bipolar EHV de lines', Indian Journal of Technology, vo.26, No.4, April 1980, pp. 161-167.
- 29) S.C.Tripathy, et al, 'Digital calculation of transient over voltages on bipolar HVDC lines due to monopolar gound fault', Journal of Institution of Engineers (India), vol 61, EL 1,1980, pp. 16-21.
- 30) S.C.Tripathy, et al, 'Load flow solution for ill conditioned power system by quadratically convergent Newtonlike method', Journal of Institution of Engineers (India), vol. 60, EL 6, June 1980, pp. 293-296.
- 31) S.C.Tripathy, et al, 'Data acquisition and monitoring of micro-alternator' Journal of Institution of Engineers (India), vol.62, EL 3, Dec. 1981, pp. 101-106.
- 32) S.C.Tripathy, et al, 'Accurate digital torque angle meter', Journal of Institution of Engineers (India), vol. 61, EL 3, Dec. 1980, pp. 111-115.

- 33) S.C.Tripathy, et al 'Switching over voltages of cross bonded cable systems cascaded with overhead lines using Fourier transform' Journal of Institution of Engineers (India), vol. 72, EL 2, Oct. 1982, pp. 72-79.
- 34) S.C.Tripathy, et al 'Real time torque angle monitoring of micro alternator', Journal of Institution of Engineers (India), vol.64, ELI Aug. 1983, pp.33-40.
- 35) S.C.Tripathy, et al 'Decentralized sub optimal load frequency control of hydrothermal power system using state variable model', Journal of Institution of Engineers (India), vol.64, EL 1, Aug 1983, pp.69-74.
- 36) S.C.Tripathy, et al 'Effects of load characteristics', voltage regulator and governor parameters on power system stability', Journal of Institution of Engineers (India), vol.64, EL 3,Dec. 1982,pp.165-170.
- 37) S.C.Tripathy, et al 'Microprocessor based digital governor for steam turbine' Journal of Institution of Engineers (India), vol.64, EL 1,Aug. 1983,pp.1-8.
- 38) S.C.Tripathy, et al 'The interfacing of micro-alternator with a microcomputer for real time monitoring' ' International Journal of Electrical Education, Manchester, vol.21, 1984, pp. 139-148.
- 39) S.C.Tripathy, et al 'Fault initiation transients in overhead lines cascaded with underground cables', Journal of Institution of Engineers (India), vol 64 EL 2,Oct 1983, pp. 116-117.
- 40) S.C.Tripathy, et al 'Switching transients with preinsertion resistors in overhead lines cascaded with underground cables', Journal of Institution of Engineers (India), vol.64, EL 2, Oct. 1983, pp. 118-121.
- 41) S.C.Tripathy, et al 'Decentralized sub optimal load frequency control of a hydrothermal power system using the state variable model' Electric power system research, 8 (1984/85) 237-247.
- 42) S.C.Tripathy, et al ' Decoupled internal state estimation using external system equivalents' International Journal of Electrical power and Energy systems, vol. 9, No, 1,January 1987. pp 23.
- 43) S.C.Tripathy, et al 'State estimation algorithm for ill conditioned power systems by Newton's method' International Journal of Electrical power and Energy systems, vol. 9, No, 2, April 1987. pp 113-116.
- 44) S.C.Tripathy, et al 'A digital computer method to evaluate load rejection over voltages on a series compensated line with static shunt compensator' Electric power system research, 13 (1987), 71-84.
- 45) S.C.Tripathy, et al 'On line economic dispatch of real power in electric energy systems', Journal of Institution of Engineers (India), vol. 67, EL 6, June. 1987, pp. 274-284.
- 46) S.C.Tripathy, et al, 'Energy conservation in an HVDC-AC power system' Electric Power System Research, 14 (1988), 129-136.
- 47) S.C.Tripathy, et al 'Some aspects of stability improvement due to magnetic energy storage in power systems', Journal of Institution of Engineers (India), vol.68, EL 3, December 1987, pp. 89-92.
- 48) S.C.Tripathy, et al, 'A new algorithm for hierarchical state estimation of power systems' Journal of Institution of Engineers (India), Vol.68 EL 6,June 1988, pp 231-236.
- 49) S.C.Tripathy, et al, 'Fast contingency analysis of power network using systems theory approach', Journal of Institution of Engineers (India), Vol.69 EL 1,Aug 1988, pp 26-32.
- 50) S.C.Tripathy, et al, 'Semi-implicit Runge Kutta methods for power system transient stability studies' International Journal of Electrical Power and Energy Systems. Vol.10. No.4, 1988.Oct. pp. 253-259.
- 51) S.C.Tripathy, et al, 'Lossy magnetic storage units for improvement in automatic generation control' International Journal of Electrical Power and Energy Systems. Vol.11, No. 4, 1989, Oct., pp 248-252.
- 52) S.C.Tripathy, et al, 'Application of magnetic energy storage unit as load frequency stabilizer', IEEE Trans.on Energy conversion, vol.5, March 1990, No1, pp. 46-51.
- 53) S.C.Tripathy, et al, 'Application of magnetic energy storage unit continuous var controller', IEEE Trans.on Energy conversion, March 1990, Vol.5 No1, pp. 39-45.
- 54) S.C.Tripathy, et al, 'Static and tracking state estimation in power system using Newton's method' Electric Machines and Power Systems, Vol.19, No.2, 1990, pp. 97-112.
- 55) S.C.Tripathy, et al, 'A 3 semester postgraduate curriculum in energy studies' International Journal of Electrical Engineering Education, Manchester, U.K, Vol. 26. No. 3, 1989.
- 56) S.C.Tripathy, et al, 'Microprocessor based active and reactive power measurement', Journal of the Institution of Engineers (India), vol.69, E12, October 1988, pp.73-77.
- 57) S.C.Tripathy, et al, 'Hierarchical economic operation of power system in contingency situation', Journal of the Institution of Engineers (India), vol.71, Aug 1990, pp.133-136.
- 58) S.C.Tripathy, et al, 'Static state estimation and bad data identification in power system using the Hessian matrix approach' Journal of the Institution of Engineers (India), vol.72, EL 2, April 1999, pp.19-23.
- 59) S.C.Tripathy, et al, ' Modification of Newton Raphson load flow for ill-conditioned power systems' International Journal of Electrical Power Systems, Vol.12, No. 3, July, 1990, pp. 192-196.

- 60) S.C.Tripathy, et al, ' An efficient node reordering technique to improve sparse vector methods' International Journal of Electrical Power Systems, Vol.12, No. 2, April, 1990, pp. 134-137.
- 61) S.C.Tripathy, et al, ' Effect of super conducting magnetic energy storage on automatic generation control considering governor dead band and boiler dynamics' IEEE Transactions on Power systems, Vol.7, No. Aug. 1992, pp.1266-1273.
- 62) S.C.Tripathy, et al, ' Small rating capacitive energy storage for dynamic performance improvement of automatic generation control', IEE Proceedings-C, Vol. 138, No. 1, Jan 1991, pp 103-110.
- 63) S.C.Tripathy, et al, ' Design of a software based digital AVR for micro alternator' Journal of the Institution of Engineers (India), vol.72, EI 5, Dec. 1991, pp. 153-159.
- 64) S.C.Tripathy, et al, 'Adaptive automatic generation control with super conducting magnetic energy storage in power systems', IEEE Transactions on Energy Conversion, Vol. 7, No. 3, Sept. 1992, pp. 434-441.
- 65) S.C.Tripathy, et al, 'Optimum compensation to improve line loaded ability', Electric Power System Research, Elsevier Sequoia, 20 (1990), pp. 73-80.
- 66) S.C.Tripathy, et al, 'Bad Data detection and identification in power system state estimation, Journal of the Institution of Engineers (India), Vol. 72, EI 6, Feb. 1992, pp. 314-319.
- 67) S.C.Tripathy, et al, ' Dynamics and stability of wind and diesel turbine generators with super conducting magnetic energy storage unit on an isolated power systems' IEEE Transaction on Energy Conversion, Vol. 6, No. 4, Dec. 1991, pp. 579-585.
- 68) S.C.Tripathy, et al, 'Stability simulation and parameter optimization of hybrid wind-diesel power generation system', International Journal of Energy Research, Wiley, Vol. 16, No. Jan. 1992, pp. 31-42.
- 69) S.C.Tripathy, et al, 'Production costing using mixed-radix and wino grad Fourier transforms', IEE Proceedings-C, 139 (6) (1992), 536-540.
- 70) S.C.Tripathy, et al, 'PC based data acquisition system' Journal of Energy Opportunities, Delhi, Vol. VII, No. 1, March 1992, pp. 30-34.
- 71) S.C.Tripathy, et al, 'Design and fabrication of DC Chopper for energy conservation in DC devices', Energy Conservation and Management, Pergamon Press, England, Vol.33, No.3, 1992,pp. 192-206.
- 72) S.C.Tripathy, et al, 'Simulation of flywheel energy storage system for city Buses 'Energy Conservation and Management, Vol.33, No. 4(1992), 243-250.
- 73) S.C.Tripathy, et al, 'Dynamic and Stability of a hybrid wind diesel power system' Energy Conservation and Management, Vol.33, No. 12 (1992), 1063-1072.
- 74) S.C.Tripathy, et al, 'Energy auditing kit for cement industries 'Energy Conservation and Management, Vol.33, No. 12 (1992), 1073-1078.
- 75) S.C Tripathy, et al, 'Power for wind' J. Institution of Engineers (India), Interdisciplinary Panels, Vol. 73, Pt.ID 1,(June 1992), 17-20.
- 76) S.C Tripathy, et al, ' Practical simulation of a wind turbine driven self-excited induction generator', Energy conversion and Management, Vol.34, No. 3, 1993, pp.187-199.
- 77) S.C Tripathy, et al, 'Internal decoupled tracking state estimator using external system equivalents' Electrical Power Systems Research, Elsevier Sequoia, 24(4) (1992), 217-226.
- 78) S.C Tripathy, et al, 'Automatic generator control with super conducting magnetic energy storage in power system' Electrical Machine and Power Systems 'Vol.22 (3), (1994) 317-338.
- 79) S.C Tripathy, et al, 'Performance evaluation of 20 KW photovoltaic system' Energy Conversion and Management, Vol. 34, No. 8, 1993, pp. 619-626.
- 80) S.C Tripathy, et al, 'Dynamics and stability of a wind stand-alone power system' Energy Conversion and Management, Vol. 34, No. 8, 1993, pp.627-640.
- 81) S.C Tripathy, et al, 'Wind turbine driven self excited induction generator' Energy Conversion and Management, Vol. 34, No. 8. 1993, pp 641-648.
- 82) S.C Tripathy, et al, 'Recursive state estimation algorithm for III-conditioned power systems', Vol. 22(4), (1994), 583-592.
- 83) S.C Tripathy, et al, 'Voltage collapse at load end of a series compensated EHV transmission line' Special issue of International Journal of Electrical Power and Energy Systems, Vol.15, 1993, No. 4, Aug, pp.251-253.
- 84) S.C Tripathy, et al, 'Mathematical model for energy planning for rural India', Int.J. Energy Res., Vol.18, No. 6, June 1994, pp.469-482.
- 85) S.C Tripathy, et al, 'Electric drive for fly wheel energy storage', Energy conv.and management, Vol. 35, No. 2(1994), 127-138.

- 86) S.C.Tripathy, et al, 'Digital speed governor for steam turbine', Energy Conv.and Management, Vol. 35, No 2 (1994), 159-199.
- 87) S.C.Tripathy, et al, 'A novel computer software for calculating optimum location and ratings of a shunt capacitor for loss reduction in distribution feeders', Energy conv.and Management, Vol. 35(2), 1994, 151-158.
- 88) S.C.Tripathy, et al, 'On line tracking state estimation of power system', Journal of Institution of Engineers (India), Elect.Engg. Div, Vol.74, Feb. 94, pp.. 162-164.
- 89) S.C.Tripathy, et al, 'Energy conservation with efficient electric drives' Energy Conv.and Management, Vol. 36(2), (1995), 125-134.
- 90) S.C.Tripathy, et al, 'Reliability and economic analysis of power generation system including a photovoltaic system' Energy Conversion and Management, 36(3), (1995), 183-190.
- 91) S.C.Tripathy, et al, 'Evaluation of generation system reliability indices by fast transform techniques' International Journal of Electrical Power and Energy Systems, 17(4), (1995), 281-287.
- 92) S.C.Tripathy, et al, 'Performance of a wind turbine driven self excited induction generator' Journal of Institution of Engineers (India), Vol. 75, Nov. 1995, 29-32.
- 93) S.C.Tripathy, et al, 'Anew state estimation algorithm with bad data analysis' Journal of Institution of Engineers (India), Vol. 76, May 1995, 29-32.
- 94) A new sallow tail catastrophe model for power system transient stability assessment, International Journal of Electric Machines and Power Systems, Vol. 25, No. 2, 1997.
- 95) S.C.Tripathy, et al, 'Sampled data automatic generation control with super conducting magnetic energy storage in power systems', IEEE Transaction on Energy Conversion, Vol. EC-12, No.2, June 1997, pp. 187-192.
- 96) S.C.Tripathy, and V. Bhardwaj, "Automatic generation control of a small hydro turbine driven generator" Energy Conversion and Management, 37(11) 1996, pp. 1635-1645.
- 97) S.C.Tripathy, S.Prasad and T.S.Bhatti, "Transient stability analysis of power system using catastrophe theory including field flux decay effect "International Journal of Electric Machines and Power Systems, Vol. 26, No. 5, 1998.
- 98) S.C.Tripathy, et al, 'Dynamic performance of wind diesel power system with capacitive energy storage', Energy Conversion and Management, Vol. 37, No. 12, 1996, pp. 1787-1978.
- 99) S.C.Tripathy, et al, 'A method of digital governor analysis' Energy Conversion and Management', Vol. 37, No. 5, 1996, pp. 541-552.
- 100) S.C.Tripathy, B. Vishwanathan and J. Heydeman, "Voltage instability and collapse of series compensated EHV transmission lines" International Journal of Electric Machines and Power Systems, Vol. 26, No. 6, 1998.
- 101) S.C.Tripathy, et al, 'Improve and load frequency control with capacitive, energy storage', Energy Conversion and Management, Vol. 38, No. 6, pp.551-582, 1997.
- 102) S.C.Tripathy, et al, 'Dynamic Simulation of hybrid wind-diesel power generation system with superconducting magnetic energy storage', Energy Conversion and Management, Vol. 38, No. 9, pp.919-930, 1997.
- 103) S.C.Tripathy, et al, 'Demand Forecasting in power system', Energy Conversion and Management, Vol. 38, No. 14, pp 1476-1481 1997.
- 104) S.C.Tripathy, P.S.Chandramohan Nair and R.Balasubramanian "Self tuning regulator for adaptive load frequency control and power system", Journal of Institution of Engineers (India) Aug 1998.
- 105) S.C.Tripathy, S.R.Lakshmi and R.Balasubramanian, "Production costing and economic analysis of power systems containing wind energy conversion systems", Energy Conversion and Management, Vol. 39, No. 7, pp 649-659, 1998.
- 106) S.C.Tripathy, M.Ud.Din Mufti and R.Balasubramanian "Simultaneous frequency and voltage control of wind diesel power systems using energy storage" International Journal J. Of Energy Research, Vol. 22, 221-235, 1998.
- 107) S.C.Tripathy, et al, 'Digital governor for use in Computer Control of a generating Unit" Energy conversion and Management", Vol. 39, No. 1998, pp. 973-983.
- 108) S.C.Tripathy, et al, 'Automatic Generation Control of Multi Area Power System with Superconducting Magnetic Energy Storage Units" International Journal of Energy Environment and Economics, Vol. 9, No. 3, 2000, pp. 161-178.
- 109) S.C.Tripathy, "Study of Dynamic Voltage Stability of Power Systems", International Journal of Electrical Engineering Education, UMIST, Manchester, England, Vol. 37/4, 2000, pp. 34-38.

- 110) S.C.Tripathy, E, Lakervi, "Evaluation of Transformer Loading Above Nameplate Rating", Electric Machines and Power Systems, Vol. 28, No. 10, 2000, pp.971-981.
- 111) S.C.Tripathy, et al, 'Stochastic Load Flow Analysis of Power System", 'International Journal of Energy Environment and Economics, Vol. 10, No. 1, 2002, pp.1-8.
- 112) S.C.Tripathy, "Modelling and Simulation of HVDC", Electric Machines and Power Systems, Vol. 31, NO.11, 2003.
- 113) S.C.Tripathy, E, Lakervi, 'Evaluation of Transformer Loading Capability" European Transactions on Electrical Power, Vol.15, 2005, pp.455-464, (Offenbach) Germany, Wiley Publication.
- 114) S.C.Tripathy, "Power Quality Improvement by Reducing Supply Current Harmonics", Accepted for publication in International Journal of Energy, Environment and Economics, in 2006, N.Y., USA.
- 115) S.C.Tripathy, et al, "Expert System Application to Topological Observability of Power Systems", Engineering Intelligent Systems, CRL Publishing Ltd., U.K., Vol. 11, No. 1, March 2003, pp. 31-42.
- 116) S.C.Tripathy, P.S.Satsangi and Sashibala Malik, " Artificial neural network application to energy system planning", Engineering Intelligent Systems, CRL Publishing Ltd, U.K., Vol. 7, No. 3, September 1999, pp.121-126.
- 117) S.C.Tripathy, et al, 'Demand side management and customer services in competitive electricity market in Finland" Journal Of International Association in Electricity Generation, Transmission and Distribution, C.B.I.P., Malcha Marg, Chanakyapuri, New Delhi, Vol. 14-16, No.1, March-May 2004, pp.42-49.