CHAPTER 8

BIBLIOGRAPHY

Thesis ends with bibliography which includes the list of reference use in each chapter and list of publications and presentations done based on this work.

Chapter 1

[1] A.J.N. van Breemen, T.J.A. de Vries "Design and implementation of a room thermostat using an agent-based approach", Control Engineering Practice, vol. 9, 2001, pp.233-248.

[2] C. B. Vishwakarma and R. Prasad, "Order reduction using the advantages of differentiation method & factor division algorithm," International Journal of Engineering and material sciences, vol. 15, 2008, pp. 447-451.

[3] I. Kamwa, R. Grondin, and G.Trudel ."IEEE PSS2B versus PSS4B: the limits performances of the modern power system stabilizers," IEEE Trans, vol.20, 2005, pp. 903-915.

[4] Apoorv H. Prajapati, Patel Mihir, "Basic concept of power system stabilizer for power system stability and comparison of different design methods", International Journal for Technological Research in Engineering, Vol. 1, 2014, pp. 2347 – 4718

[5] S. M. Radaideh, I. M. Nejdawi, and M. H. Mushtaha, "Design of power system stabilizers using two level fuzzy and adaptive neuro-fuzzy inference systems," International Journal of Electrical Power & Energy Systems, vol. 35, 2012, pp. 47-56.

[6] R. V. deOliveira, R. A. Ramos, N. G.Bretas, "An algorithm for computerized automatic tuning of power system stabilizers", Control Engineering Practice, Vol. 18, 2010, pp. 45–54.

[7] Srinivas Singirikonda, G.Sathishgoud, M. Harikareddy, "Transient Stability of A.C Generator Controlled By Using Fuzzy Logic Controller", Int. Journal of Engineering Research and Applications, Vol. 4, 2014, pp.389-395.

[8] J. Rommes and N. Martins, "Computing Large-Scale System Eigenvalues Most Sensitive to Parameter Changes, With Applications to Power System Small-Signal Stability", IEEE Transactions on Power Systems, vol. 23, 2008, pp. 340-352

[9] Rajendra Prasad ,Narne, P.C.Panda "Transient Stability Enhancement of SMIB System using PSS and TCSC-Based Controllers", IEEE PEDS, 2011, pp.214-218.

[10] G. Cheng, L.Q. Zhan, "Simultaneous coordinated tuning of PSS and FACTS damping controllers using improved particle swarm optimization", IEEE/APPEEC, 2009, pp.1-4.

[11] K. R. Padiyar, "FACTS Controller in Power Transmission and Distribution", New Age International (P) Limited, Publishers,2007.

[12] M.A. Mahmud, M.J. Hossain, H.R. Pota "Transient stability enhancement of multi-machine power systems using nonlinear observer-based excitation controller" Electrical Power and Energy Systems 58, 2014, pp.57–63.

[13] Manish Kushwaha*, Mrs. Ranjeeta Khare, "Improvement of Dynamic Stability of a SMIB using Fuzzy Logic Based Power System Stabilizer", International Journal of Engineering Research and Applications (IJERA), Vol. 2, 2012, pp.1429-1439.

[14] A.G.E. Abera, B. Bandyopadhyay, "Digital redesign of sliding mode control with application to power system stabilizer", IEEE/IECON, Orlando, 2008, pp.164-169.

[15] Jenica Ileana Corcau, Eleonor Stoenescu, "Fuzzy logic controller as a power system Stabilizer", International Journal Of Circuits, Systems And Signal Processing, Vol.1, 2007.

[16] Surinder Chauhan, Vikram Chopra, Shakti Singh, "Transient Stability Improvement of Two Machine System using Fuzzy Controlled STATCOM" International Journal of Innovative Technology and Exploring Engineering (IJITEE), , Vol.2, 2013, ISSN: 2278-3075.

[17] RajendraPrasad Narne, Jose. P. Therattil and P.C.Panda, "Improving Power System Transient Stability by PSS and Hybrid Fuzzy-PI based TCSC Controllers", IEEE, 2012, pp.978-983.

[18] M.Mary Linda, Dr.N.Kesavan Nair, "Optimal Design of Fuzzy Based Power System Stabilizer Self Tuned by Robust Search Algorithm", Journal Of Computing, Vol. 1, 2009, ISSN: 2151-9617.

[19] Wenxin Liu, Ganesh K. Venayagamoorthy, Jagannathan Sarangapani, "Comparisons Of An Adaptive Neural Network Based Controller And An Optimized Conventional Power System Stabilizer", 16th IEEE International Conference on Control Applications, Singapore, 1-3 October 2007.

[20] Agus Jamal and Ramadoni Syahputra, "Adaptive Neuro-Fuzzy Approach for the Power System Stabilizer Model in Multi-machine Power System", International Journal of Electrical & Computer Sciences IJECS-IJENS Vol. 12.

[21] D. K. Chaturvedi, O. P. Malik, Life Fellow, IEEE, and P. K. Kalra, "Performance of a Generalized Neuron-Based PSS in a Multi-machine Power System" IEEE Transactions on Energy Conversion, Vol. 19, 2012.

[22] Wenxin Liu, Ganesh Kumar Venayagamoorthy, "A Heuristic-Dynamic-Programming-Based Power System Stabilizer for a Turbo generator in a Single-Machine Power System", IEEE Transactions On Industry Applications, Vol. 41, 2005.

[23] Hasan Alkhatib ., Jean Duveau, "Dynamic genetic algorithms for robust design of multimachine power system stabilizers", Electrical Power and Energy Systems", Vol. 45, 2013,pp.242–251.

[24] AbediniaG , Mohammad S. Naderi, A. Jalili G, B. Khamenehpour G, "Optimal Tuning of Multi-Machine Power System Stabilizer Parameters Using Genetic-Algorithm", International Conference on Power System Technology, 2010.

[25] P. Kundur, Power System Stability and control, McGraw-Hill.

[26] S. K. Wang, J. P. Chiou, C. W. Liu, "Parameters tuning of power system stabilizers using improved ant direction hybrid differential evolution". International Journal Electric Power Energy System, Vol. 31, 2009, pp. 34–42.

[27]D.K. Sambariya1 and Rajendra Prasad "Robust Power System Stabilizer Design for Single Machine Infinite Bus System with Different Membership Functions for Fuzzy Logic Controller" Proceedings of7'h International Conference on Intelligent Systems and Control, ISCO 2013.

[28]Parviz Palangpour, Pinaki Mitra, Swakshar Ray ,Ganesh K. Venayagamoorthy,"DSP-Based PSO Implementation for Online Optimization of Power System Stabilizers", NASA/ESA Conference on Adaptive Hardware and Systems, 2009.

[29] H. Hassan, M. El Metwally, A. Bendary, "Enhancement of FACTS stability through robust adaptive control," The International Conference on Electric Power and Energy Conversion Systems (EPECS'09), American University of Sharjah, 2009, pp.10-12.

[30] P.Meena, K. Uma Rao, Ravishankar .D, "Real-Time Detection and Analysis of PQ disturbances with DSP using Matlab Embedded Link to Code Composer Studio", Third International Conference on Power Systems, Kharagpur, 2009,pp. 27-29.

[31] M. S. Rahman, H. R. Pota, T. F. Orchi, "Agent Based Coordinated Control of Protection Devices for Transient Stability Enhancement", IEEE 8th Conference on Industrial Electronics and Applications (ICIEA), 2013.

[32] Chaudhuri B. Majumder R., Pal B.C. "Application of multiple-model adaptive control strategy for robust damping of Interarea oscillations in power system". IEEE Transactions on Control System Technology, Vol.12, 2004, pp.727-736.

[33] Rao R.R., Aufderheide B., Bequette B.W. "Experimental studies on multiple-model predictive control for automated regulation of hemodynamic variables. IEEE Transactions on Biomedical Engineering, Vol. 50,2003,pp. 277-288.

[34] R. Rao, B. Aufderheide, and B. Bequette, "Experimental studies on multiple-model predictive control for automated regulation of hemo-dynamic variables, IEEE Trans. Biomed. Eng., vol. 50, 2003, pp. 277.288.

[35] S. Kamalasadan, A, A. Ghandakly K, Al-Olimat, "A fuzzy multiple reference model adaptive control scheme for flexible link robotic manipulator",IEEE Int. Conf. Comput.Intell. Meas. Syst. Appl., 2004, pp. 162–167.

[36] Ami Patel, Prof. S.K.Shah, "Design and Analysis of Switched Multiple Model Adaptive Control for Local Controllers", International Journal of Engineering Associates, Vol. 1, 2012, ISSN: 2320-0804.

 (http://www.advanceresearchlibrary.com/temp/downloads/ijea/feb2013/rk32.pdf)

[37] Ami Patel, Prof. S.K.Shah, Hardik A Shah "Improvement of Transient stability of SMIB system using Fuzzy & ANFIS based STATCOM damping stabilizer", Target -2014, Institution of electrical and electronics engineers, Vadodara, March 8th 2014.

[38] Ami Patel, Prof. S.K.Shah, "Development of Real time controller of a Single Machine Infinite Bus system with PSS", International Journal of Electrical Engineering (IIJEE), Vol. 2, 2014, ISSN 2321-600X.

 (http://ipasj.org/IIJEE/Volume2Issue9/IIJEE-2014-09-22-5.pdf)

[39] Hemisha Patel, Ami Patel, "Comparison of Different Design Methods for power System Stabilizer Design - A Review", International Journal for Scientific Research & Development, Vol. 2, 2014, ISSN: 2321-0613.

[40] Ami Patel, Prof. S.K.Shah, Hardik A Shah, "Design of fuzzy logic power system stabilizers in a multi-machine power system using Particle swarm optimization based optimal control

algorithm", International conference on computing, communication, Electrical, Electronic Devices & signal processing at (Springer journal) at Andhra Pradesh during 28-30 March, 2015.

[41] Ami Patel, Hemisha Patel, Prof. S.K.Shah, "Development of Intelligent controller for Power System stabilization for Single Machine Infinite Bus system", International conference on computing, communication, Electrical, Electronic Devices & signal processing at (Springer journal) at Andhra Pradesh during 28-30 March, 2015.

[42] Ami Patel, Hemisha Patel "Performance Evaluation of PSS Under Different Loading Condition", Global Conference on communication technologies GCCT (IEEE Conference) at Tamilnadu during 23-24 April,2015, Accepted after review.

Chapter 2

[1] E.V. Larsen, D.A. Swann, "Applying power system stabilizers part I : general concepts", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-100, 1981.

[2] Michael J. Basler, Richard C. Schaefer, "Understanding Power-System Stability", IEEE transactions on industry applications, vol. 44, 2008.

[3] J. Kim, T. Jang, Y. Yoon, and S. Cho, "Analysis and design of voltage controlled oscillator based analog-to-digital converter," IEEE Trans. Circuits Syst. I, Reg., vol. 57, 2010, pp. 18–30.

[4] V. Kratyul, P. Hanumolu, K. Ok, U. Moon, K. Mayaram, "A digital PLL with a stochastic time-to-digital converter," IEEE Trans. Circuits Syst. I, vol. 56,2009, pp. 1612–1621.

[5]G. ShahgholianGhfarokhi, M. Arezoomand, "Analysis and Simulation of the Single-Machine Infinite-Bus with Power System Stabilizer and Parameters Variation Effects", International conference on intelligent and advanced system",IEEE 2007.

[6] M.JA Shawon, Mohammad HasanuzzamanShawon, "Performance Evaluation of Different Excitation Systems with and without PSS under Various Loading Condition", IEEE 2012.

[7] J.Faiz,Gh.Shahgholian, M.Arezoomand, "Analysis and Simulation of the AVR System and Parameters Variation Effects", IEEE 2007.

[8]Arslan, E., Camurdan, M. C., Palazoglu, A., & Arkun, Y., "Multimodal scheduling control of nonlinear systems using gap metric", Industrial & Engineering Chemistry Research, Vol. 43,2004, pp. 8275–8283.

[9]Chaudhuri B., Majumder R., Pal B.C..Application of multiple-model adaptive control strategy for robust damping of Interarea oscillations in power system.IEEE Transactions on Control System Technology, Vol. 12,2004, pp. 727-736.

[10]Kamlesh Chandra Rout, Dr.P.C.Panda, "An Adaptive Fuzzy Logic Based Power System Stabilizer For Enhancement of Power System Stability, International Conference on Industrial Electronics, Control and Robotics, 2010, pp. 175-179.

[11] S. K. Almusawi and J. Talaq, "Comparison of Four Different Power System Stabilizers", IEEE Trans.Power Syst., vol. 20,2005, pp. 358–366.

[12] R.Ramya, Dr.K.Selvi,"A Simple Fuzzy Excitation Control System for Synchronous Generator",IEEE 2011.

[13] D.K. Sambariya, Rajendra Prasad, "Robust Power System Stabilizer Design for Single Machine Infinite Bus System with Different Membership Functions for Fuzzy Logic Controller", IEEE 2012.

[14] N.S. Ab Khalid, M.W. Mustafa and R. MohamadIdris, "Analysis of Fuzzy Power System Stabilizer using Various Defuzzification Interface for Takagi-Sugeno Fuzzy Logic", IEEE International Power Engineering and Optimization Conference (PEOCO2012), Melaka, Malaysia: 6-7 June 2012.

[15] Y. S .Lee, C. I. Lin, and C. F. Chuang, "Design of single input fuzzy logic control power system stabilizer", Proceeding of IEEE Tencon'02, Vol. 3, 2002, pp. 1901-1904.

[16] T.T. Nguyen, R. Gianto, 'Neural networks for adaptive control coordination of PSSs and FACTS devices in multi-machine power system'. IET Gener.Transm. Distrib, Vol. 2, 2008, pp. 355–372.

[17] A. S. Poznyak, "Advanced Mathematical Tools for Automatic Control Engineers", Amsterdam, The Netherlands: Elsevier, vol. 1, 2008, p. 774.

[18]W. Liu, G. K. V. Moorthy, and D. C.Wunsch, II, "Adaptive neural networkbased power system stabilizer design," IEEE Trans. Power Syst., vol. 4, 2003, pp. 2970–2975.

[19] Dr.Jagdishkumar, P.Pavankumar, Aeidapu Mahesh, "Power System Stabilizer Based On Artificial Neural Network", IEEE 2011.

[20] P.Pavankumar, M.RavindraBabu , Saraswathi , "Dynamic analysis of single machine infinite bus system using single and dual input PSS",IEEJ, vol.3,pp.632-641.

[21]T. Abdelazim , O. P.Malik, "An adaptive power system stabilizer using online self-learning fuzzy system," IEEE Power Eng. Soc. Gen.Meet., Toronto, Canada, Jul. 13–17, 2003, pp. 1715–1720.

[22]D. K. Chaturvedi, O. P. Malik, "A generalized neuron based adaptivepower system stabilizer for multimachine environment," IEEE Trans.Power Syst., vol. 20, 2005, pp. 358–366.

[23]D. K. Chaturvedi, 0. P. Malik, "Experimental Studies Witha Generalized Neuron-Based Power System Stabilizer". IEEE Trans. Power System, Vol. 19, 2004.

[24]E1shafei. AL., K. E1-Metwal1y, AA. Sha1tout,"A variable structure adaptive fuzzy logic stabilizer for single and multi-machine power systems", Control Engineering Practice, Elsevier, Vol. 13, 2005, pp. 413-423.

[25] P.R.Gandhi, S.K.Joshi, "GA and ANFIS based Power System Stabilizer",IEEE 2013.

[26] N. A. Mohamed Kamari, I. Musirin, "PSS-LL Based Power System StabilityEnhancement Using IPSO Approach",IEEE 7th International Power Engineering and Optimization Conference (PEOCO2013), Langkawi, Malaysia. 3-4 June 2013.

[27] F. Mayouf F. Djahli, A. Mayouf, "New Genetic-Fuzzy Controller for ImprovingStability of Superconducting Generator with High Response Excitation in a SMIB Power System",IEEE 2013.

[30] Haseena K A, Ancy Sara Vargheses, "Comparative Analysis of Stability   Enhancement in SMIB Using Robust PSS with Different Controllers", IEEE 2013.

[31]Chaudhuri B., Majumder R., Pal B.C. 'Application of multiple-model adaptive control strategy for robust damping of Interarea oscillations in power system' IEEETrans. Contr. Syst. Tech., Vol. 12, 2004, pp. 727–736.

[32] Sadikovic R., Korba P., Andersson G. "Self-tuning controller for damping of power system oscillations with FACTS devices". PES General Meeting, Montreal, Canada, June 2006.

[33]RaoR.R., Aufderheide, B., Bequette, B.W. (2003)."Experimental studies on multiple-model predictive control for automated regulation of hemodynamic variables",IEEE Transactions on Biomedical Engineering", Vol.50, 2003, pp. 277-288.

[34] Kundur.P, "Power System Stability and Control", NewYork: McGraw-Hill, 1994.

[35] K.R.Padiyar, Power system dynamics stability and control 2nd Edition B.S publications.

[36] N.P.PADHY,"Artificial Intelligence and intelligent system", OXFORD UNIVERSITY PRESS.

[37]Renuka T. K.,SobhaManakkal, "A Tuned Fuzzy Based Power System Stabilizerfor Damping of Low Frequency Oscillations", IEEE 2012.

[38]F. Zheng, Q. G. Wang, T. H. Lee, X. Huang, "Robust PI Controller Design for Nonlinear Systems via Fuzzy Modelling Approach", IEEETrans. Syst., Man, and Cyber.-Paet A: Syst. and Humans, Vol. 31, 2001, pp. 666-675.

[39]J. Wang, C. Chen and M. L. Scala, "Parametric Adaptive Control ofMultimachine Power Systems with Nonlinear Loads", IEEE Trans.Circuits and Syst.-II: Express Briefs, Vol. 51, 2004, pp. 91-100.

[40]W. J. Chang and W. Chang, "Model-Based Fuzzy Controller Design forTime-Delay Affine Takagi-Sugeno Fuzzy Models via ILMI algorithmof Intelligent & Fuzzy Syst", Vol. 17, 2006, pp. 633-647, 2006.

[41]W. J. Chang1, C. C. Ku, P. H. Huang, "Fuzzy Controller Design with Passivity Performance for Single Machine Infinite Bus Power Systems", DRPT2008 6-9 April 2008 Nanjing China.

[42] H. A. Simon, "The sciences of the Artificial", The MIT Press, Cambridge, Massachusetts, 2^{nd}printing edition, 1998.

[43] S. Skogestad, I. Posthlethwaite, "Multivariable Feedback control", John Wiley & sons, Baffins Lane, Chichester, England, 1996.

[44]Chan, W.C., Hsu. Y.Y., "An optimal variable structure stabilizer for power system stabilizer", IEEE Trans. on Power Apparatus and Systems, Vol. PAS-102, 1983, pp.1738-1746.

[45]Hiyama, T., "Application of rule-based stabilizer controller to electric power system", IEE Proceedings C, Vol. 136, 1989, pp.175-181.

[46]Zadeh, L.A. et. al., "Calculus of fuzzy restriction in fuzzy sets and their application to cognitive and decision process", Academic Press, 1975, pp. 1-40.

[47]S. Kamalasadan, A. A. Ghandakly, K. Al-Olimat, "A fuzzy multiple reference model adaptive control scheme for flexible link robotic manipulator," in Proc. IEEE Int. Conf. Comput.Intell. Meas. Syst. Appl., 2004, pp. 162–167.

[48]Chaudhuri B., Majumder R., Pal B.C.: 'Application ofmultiple-model adaptive control strategy for robustdamping of Interarea oscillations in power system' IEEE Trans. Contr. Syst. Tech., Vol., 12, 2004, pp. 727–736.

Chapter 3

[1] E.V. Larsen, D.A. Swann, "Applying power system stabilizers part I: general concepts", IEEE Transactions on Power Apparatus and Systems", Vol. 100, 1981.

[2] Michael J. Basler, Richard C. Schaefer, "Understanding Power-System Stability", IEEE transactions on industry applications, vol. 44, 2008.

[3] Haseena K A, Ancy Sara Vargheses, "Comparative Analysis of Stability   Enhancement in SMIB Using Robust PSS with Different Controllers", IEEE 2013.

[4]Manish Kushwaha, Mrs. RanjeetaKhare, "Iimprovement of Dynamic Stability of a SMIB using Fuzzy Logic Based Power System Stabilizer", International Journal of Engineering Research and Applications (IJERA),Vol. 2, 2012, pp.1429-1439.

[5]Neeraj Gupta and Sanjay K. Jain, "Comparative Analysis of Fuzzy Power System Stabilizer Using Different Membership Functions", International Journal ofComputer and Electrical Engineering, Vol. 2, 2010, pp. 1793-8163.

[6]B.Renuka, Dr M S Krishnarayalu, "On Stabilizers for Multi Area Power Systems", International Journal of Engineering Research & Technology (IJERT) Vol. 1, 2012.

[7]Goran Anderson, " Dynamics and control of Electric power system", ETH Zurich, 2012.

[8]K.R.Padiyar, Power system dynamics stability and control 2nd Edition B.S publications.

[9]Dhaval N Tailor,BhaveshBhalja,Vijay Makawana, "Roll of PSS and SVC for improvingThe Transient Stability of Power System", International Journal of Engineering and Advanced Technology (IJEAT),Vol.1, 2012,ISSN: 2249 –8958.

[10]www.mathworks.com/examples/simpower/49-svc-and-pss-phasor-model.

[11]Kamalesh Chandra Rout*, Dr.P.C.Panda, "An Adaptive Fuzzy Logic Based Power System Stabilizer for Enhancement of Power System Stability", 2010 International Conference on Industrial Electronics, Control and Robotics.

[12]D. Murali, M. Rajaram, "Damping Improvement by Fuzzy Based Power System Stabilizers Applied in Multi-machine Power Systems", European Journal of Scientific Research, Vol.55, 2011, pp.506-516.

[13]M.Mary Linda, Dr.N.Kesavan Nair, "Dynamic Stability Enhancement with Fuzzy basedPower System Stabilizer Tuned by Hottest Non-Traditional Optimization Technique", Second International conference on Computing, Communication and Networking Technologies 2010.

[14]D. K. Sambariya, 2r. Gupta, 3a. K. Sharma, "Fuzzy Applications to Single Machine Power system Stabilizers", Journal of Theoretical and Applied Information Technology, JATIT, 2009.

[15]M.Mary Linda, Dr.N.Kesavan Nair, "Optimal Design of Fuzzy Based Power System Stabilizer Self Tuned by Robust Search Algorithm", Journal Of Computing, Vol.1, 2009, ISSN: 2151-9617.

[16]Surinder Chauhan, Vikram Chopra, Shakti Singh, "Transient Stability Improvement of Two Machine System using Fuzzy Controlled STATCOM", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol. 2, 2013,ISSN: 2278-3075.

[17]Wenxin Liu, Student Member, IEEE, Ganesh Kumar Venayagamoorthy, "A Heuristic-Dynamic-Programming-Based Power System Stabilizer for a Turbo generator in a Single-Machine Power System", IEEE Transactions on Industry Applications, Vol. 41, 2005.

[18]RajatMajumder, BalarkoChaudhuri, Bikash C. Pal, and Qing-Chang Zhong, "Unified Smith Predictor Approach for Power System Damping Control Design Using Remote Signals", IEEE Transactions on Control Systems Technology, Vol. 13, 2005.

[19]Y .Z Hang0, P. Malik,P. Chen, "Artificial Neural Network Power System Stabilizers inMulti-Machine Power System Environment", IEEE Transactions on Energy Conversion, Vol. 10, 1995.

[20]Wenxin Liu, Ganesh K. Venayagamoorthy, JagannathanSarangapani "Comparisons Of An Adaptive Neural Network Based ControllerAnd An Optimized Conventional Power System Stabilizer", 16th IEEE International Conference on Control Applications Part of IEEE Multi-conference on Systems and Control Singapore, 1-3 2007.

[21]Peng Zhao and O. P. Malik, "Design of an Adaptive PSS Based on RecurrentAdaptive Control Theory", IEEE Transactions On Energy Conversion, Vol. 24, 2009.

[22]D. K. Chaturvedi, and O. P. Malik, "Neuro-fuzzy Power System Stabilizer", IEEE Transactions On Energy Conversion, Vol. 23, 2008.

[23]D. K. Chaturvedi, O. P. Malik, "Performance of a Generalized Neuron-Based PSSin a Multimachine Power System", IEEE Transactions On Energy Conversion, Vol. 19, 2004.

[24]Seung-MookBaek, Jung-Wook Park, "Power System Control With an Embedded Neural Network in Hybrid System Modelling", IEEE Transactions On Industry Applications, Vol. 44, 2008.

[25]Chun-Jung Chen, Tien-Chi Chen, Jin-ChyzOu, "Power System Stabilizer Using a New Recurrent Neural Network for Multi-Machine", First International Power and Energy Coferencepecon2006, 28-29, 2006.

[26]J. Ahmadian, M. Jalali, R. Pouaghababa, M. Nouhi, "Power System Stabilizers Optimization Based On Neural Network Using Linear Optimal Control",University Of Pitesti – Electronics And Computers Science, Scientific Bulletin, Vol.2, 2008, ISSN - 1453 – 1119.

Chapter 5

[1] Welhazi, Y. , Guesmi, T. ; Dhifaoui, C. ; Abdallah, H.H., "Robust design of multimachine power system stabilizers using multi-objective PSO algorithm", Renewable Energy Congress, IEEE, Renewable Energy Congress (IREC), 2014 5th International

[2] Luiz S. Martins-Filho, Adrielle C. Santana, Ricardo O. Duarte , Gilberto Arantes Junior , "Processor-in-the-Loop Simulations Applied to the Design and Evaluation of a Satellite Attitude Control", ISBN 978-953-51-1220-4, Published: February 12, 2014 under CCBY licenses 3.0.

[3] Mrs.Ami T.Patel1, Mr. Hardik A.Shah2 Prof.S. K.Shah, "Development of Real time controller of a SingleMachine Infinite Bus system with PSS", International Journal of Electrical Engineering (IIJEE), Volume 2, Issue 9, September 2014, ISSN 2321-600X.

[4] JUAN ZAPATA, RAM´ON RUIZ, "Rapid Development of Real-Time Applications Using MATLAB/Simulink on TI C6000-based DSP", Proceedings of the 5th WSEAS International Conference on Education and Educational Technology, Tenerife, Canary Islands, Spain, December 16-18, 2006.

[5] D. K. SAMBARIYA, 2 R. GUPTA, 3 A. K. SHARMA, "FUZZY APPLICATIONS TO SINGLE MACHINE POWER SYSTEM STABILIZERS", Journal of Theoretical and Applied Information Technology, 2005 - 2009 JATIT.

[6]Mahendra Kumar, Dr. Rajeev Gupta, "A comparative study using Simulated Annealing and fast output sampling Feedback Technique based PSS Design for Single machine Infinite bus system modeling", International Journal of Engineering Research and Applications, Vol. 2, Issue 2, March-April-2012, pp. 223-228.

[7] Rulph Chassing and Donald Reay, "Digital Signal Processing andApplication with the TMS320C6713 and TMS320C6416 DSK", SecondEdition, Wiley-India, 2010.

[8] A. Messai, A. Mellit, A. Massi Pavan , A. Guessoum H. Mekki, "FPGAbasedimplementation of a fuzzy controller (MPPT) for photovoltaic module," Energy Conversion and Management, Vol. 52, No. 7. (July2011), pp. 2695-2704.

[9] Hamed Peyravi , Abdollah Khoei , Khayrollah Hadidi, "Design of ananalog CMOS fuzzy logic controller chip," Elsevier Science J. Fuzzy Sets and System 132(2002), PP.245-260.

[10] Pallab Maji1, Sarat Kumar Patra2 and Kamala Kanta Mahapatra, "Design of Fuzzy Logic Controller based onTMS320C6713 DSP", 2012 12th International Conference on Intelligent Systems Design and Applications (ISDA)

[11] M. Abido. Optimal design of power-system stabilizers using particle swarm optimization. Energy Conversion, IEEETransactions on, 17(3):406–413, Sept. 2002.

[12] G. Ueno, K. Yasuda, and N. Iwasaki.Robust adaptive particleswarm optimization. In Systems, Man and Cybernetics,2005 IEEE International Conference on, volume 4, pages3915–3920, Oct. 2005.

[13] R. A. Krohling. Gaussian swarm: a novel particle swarmoptimization algorithm. In Cybernetics and Intelligent Systems,2004 IEEE Conference on, volume 1, pages 372–376,Dec. 2004.

[14] BOSE B., Modern Power Electronics and AC Drives, Prentice Hall PTR, 2002

[15] MIHALANCHE L., A High Performance DSP Controller for Three-Phase PWM Rectifiers With Ultra Low Input Current THD Under Unbalanced and Distorted Input Voltage, 40th IEEE IAS An-nual Conference, October 2005.

[16] ZHIHONG L., KEGGENHOFF R., EiceDRIVER™ 6ED003E06-F - Evaluation Board for Easy-PACK750 – Datasheet and Application, EUPEC GmbH, July 2003.

[17] BINGSEN W., CATHEY J. J.,DSP-controlled space-vector PWM current source converter for STATCOM application, Electric Power Systems Research 67, March 2003.

[18] QIU D. Y., YIP S. C., CHUNG H., HUI S. Y., On the Use of Current Sensors for the Control of Power Converters, IEEE Transactions on Power Electronics, vol.18, no.4, July 2003.

[19] Uran, S., D. Hercog, and K. Jezernik (2004). Experimental control learning based on DSP2 learning module. 2004 IEEE International Conference on Industrial Technology, vol. 1, pp. 310-315.

[20] Van deMolengraft, R., M. Steinbuch, and B. DeKraker (2005). Integrating experimentation into control courses.IEEE Control Systems Magazine, vol. 25, no. 1, pp. 40-44.

[21] Yan, Y. and R. Zane (2004). Digital controller design for electronic ballasts with phasecontrol.IEEE 35th Annual Power Electronics Specialists Conference, vol. 3, pp. 1855-1860.

Chapter 6

[1]M.S.Rahman, , H. R. Pota T. F. Orchi, "Agent Based Coordinated Control Of Protection Devices For Transient Stability Enhancement",IEEE 8th Conference On Industrial Electronics And Applications, 2013.

[2]Deepkiran Tirkey, Ms.Dhaneshwarisahu ,Umasankar Patel, " Comparative Study Of Different Algorithm For The Stability In Multi Machine Power System", International Journal Of Engineering Science Invention , Vol. 2, 2013,pp.63-71.

[3]Juan Fern´Andez-Vargas, Tadeusz Niewierowicz, "Excitation Control For Multimachine Power Systems", Electric Power Systems Research, Vol. 76, 2006, pp. 476–484.

[4] Seung-Mook Baek, Jung-Wook Park, Ian A. Hiskens, "Optimal Tuning For Linear And Nonlinear Parameters Of Power System Stabilizers In Hybrid System Modeling", IEEE Transactions On Industry Applications, Vol. 45, 2009.

[5] Jayapal Reddy A, Mendiratta Jugal Kishore B, "Real Time Implementation Of H1 Loop Shaping Robust PSS For MultimachinePower System Using Dspace", Electrical Power And Energy Systems, Vol. 33, 2011, pp. 1750–1759.

[6] T. Hiyama, Senior Member, IEEE, Y. Tsukawaki, Nonmember, M. Kawakita, Non-Member, "Real Time Transient Stability Simulator Of LargeScale Multi-Machine Power System

InMatlab/Simulink Environment", International Conference On Power Systems Transients (Ipst'05) In Montreal, Canada, 2005.

[7] O. Abedinia, B. Wyns, A. Ghasemi, "Robust Fuzzy PSS Design Using Abc", IEEE, 2011.

[8] A. Naceri1, M. Abid1, Y. Ramdani1, "A Robust PSS Automated Design Based On AdvancedH2 And H∞ Frequency Control TechniquesTo Improve Power System Stability", Recent Researches In Communications, Electrical & Computer Engineering, 2008.

[9]Kanika Gupta, Ankit Pandey, " Stabilization Of Multi Machine System Connected To Infinite Bus", International Journal Of Scientific & Technology Research, Vol. 2, 2013, ISSN 2277-8616.

[10]M.A. Mahmuda,, M.J. Hossain B, H.R. Pota , "Transient Stability Enhancement Of Multimachine Power Systems UsingNonlinear Observer-Based Excitation Controller", Electrical Power And Energy Systems, Vol. 58, 2014, pp. 57–63.

Chapter 7

[1] R.Ramya, Dr.K.Selvi,"A Simple Fuzzy Excitation Control System for Synchronous Generator",IEEE 2011.

[2] Dr.Jagdishkumar, P.Pavankumar, Aeidapu Mahesh, "Power System Stabilizer Based On Artificial Neural Network", IEEE 2011.

[3] P.Pavankumar, M.RavindraBabu, Saraswathi , "Dynamic analysis of single machine infinite bus system using single and dual input PSS",IEEJ, vol.3,pp.632-641.

[4] P.R.Gandhi, S.K.Joshi, "GA and ANFIS based Power System Stabilizer", IEEE 2013.

Appendix E

[1]M. Hashedet.al., "A neuro-fuzzy power system stabilizer with self-organizing map for multimachinesystems," Proceeding of IEEE Power Engineering Society Transmission andDistribution Conference, Vol. 2, pp. 1219-1224, 2002.

[2]A. Kazemi, and M. V. Sohforouzani "Power System Damping Using Fuzzy Controlled FACTS Devices" *IEEE International Conference on Power System Technology - POWERCON 2004*, Singapore, 21-24November 2004.

[3]Wei Li and X. Chang, "Application of hybrid fuzzy logic proportional plus conventional integral-derivative controller to combustion control of stoker-fired boilers," *Fuzzy Sets and Systems* vol. 111, pp. 267-284,2000.

[4]Nirmalkumar S. Reshamwala, "Time-Delay Neural Network for Smart MIMO Channel Estimation in Downlink 4G-LTE-Advance System", I.J. Information Technology and Computer Science,Vol. 06, 2014, pp. 1-8.

[5]J. Ahmadian, M. Jalali, R. Pouaghababa, M. Nouhi, "Power System Stabilizers Optimization Based On Neural Network Using Linear Optimal Control ",University Of Pitesti – Electronics And Computers Science, Scientific Bulletin, Vol.2, 2008.

[6]Sidhartha Panda, "Power system with PSS and FACTS controller: Modelling, simulation and simultaneous tuning employing genetic algorithm," International Journal of Electrical, Computer, and Systems Engineering, Vol. 1, No. 1, pp. 9-18, 2007.

[7]Gaurav, Amrit Kaur, "Comparison between Conventional PID and Fuzzy Logic Controller for Liquid Flow Control: Performance Evaluation of Fuzzy Logic and PID Controller by Using MATLAB/Simulink", International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.1, 2012ISSN: 2278-3075.

[8]Bhosale K.C, "Application of Fuzzy Logic method for optimization of Wear Parameters of Composite Polytetrafluroethylene", International Journal of Current Engineering and Technology ISSN 2277 – 4106.

[9]H.Kala, D.Deepakraj, P.Gopalakrishnan, "Performance Evaluation of Fuzzy Logic and PID Controller for Liquid Level Process", International Journal of Innovative Research in Electrical, Electronics, Instrumentation And Control Engineering Vol. 2, 2014.

[10]A.Y. Abdelaziz, "A Fuzzy Logic Classifier for Transient Stability Assessment", International power systems conference on MEPCON' March, 2000.

[11]Y. Babazadeh, S. M. Mousavi, M. R. Akbarzadeh, "Multidimensional Dynamic Modelling of Milk Ultrafiltration UsingNeuro-Fuzzy Method and a Hybrid Physical Model", Iranian Journal of Chemical Engineering, Vol. 5 (Spring), 2008.

[12]K V N K Prasad; G.V.S.R. Anjaneyulu, "Applications Of Neural Network's For Decision Making In Marketing", International Journal Of Marketing, Financial Services & Management Research, Vol.3, 2014, pp.114-123.

[13]Srinivasa Kumar Devireddy, Settipalli Appa Rao, "Hand Written Character Recognition Using Back Propagation Network", Journal of Theoretical and Applied Information Technology, 2005 – 2009.

[14] D.R.Kalbande, "An AdvancedTechnology Selection Model using Neuro Fuzzy Algorithm for Electronic Toll Collection System", International Journal of Advanced Computer Science and Applications ,Vol. 2, 2011.

[15]W. John, "View-invariant action recognition based on Artificial Neural Networks", IEEE Transactions on Neural Networks and Learning Systems, Vol. 23, 2012.

[16]Nawsher Ahmed Noor, "Bangla Optical Character Recognition", Journals of academia 2005.

[17]Iulian Nastac, "Intelligent Systems in Business Neural Networks", Journal of Microbiological Methods, Elsevier Science, Vol. 43, 2004.

[18]Rong-Jong Wai, , Yeou-Fu Lin, Kun-Lun Chuang, "Total sliding-mode-based particle swarm optimization control for linear induction motor" Journal of the Franklin InstituteVol. 351, 2014, pp. 2755–2780.

[19]Hamid Bouzeboudja, "Economic Dispatch Solution Using A Real-Coded Genetic Algorithm", Acta Electrotechnica et Informatica, Vol. 5, 2005.

[20] Dr. T. Govindaraj, M. Vidhya, "Optimal Economic Dispatch for Power Generation Using Genetic Algorithm", ICSAI conference, 2003.

[21]Faa-Jeng Lina, Hsin-Jang Shieha, Kuo-Kai Shyub, Po-Kai Huang, "On-line gain-tuning IP controller using real-coded genetic algorithm", Electric Power Systems Research, Vol. 72, 2004, pp. 157–169.

[22]www. mathworks.com/help/gads/what-is-particle-swarm-optimization.html.

[23]www.mathworks.com/help/gads/particle-swarm-optimization-algorithm.html.

[24]Amit Ashara, "the CMSISDSPLibraryinCodeComposerStudioforTM4CMCUs", ApplicationReportSPMA041F, 2015.

[25]P.Meena, K. Uma Rao, Ravishankar .D, "Real-Time Detection and Analysis of PQ disturbanceswith DSP using Matlab Embedded Link to CodeComposer Studio", 2009 Third International Conference on Power Systems", Kharagpur, INDIA December 27-29, 2009.

[26]E.Zigouris, A.Kalantzopoulos and E.Vassalos, "LabVIEW to CCS Link for Automating DigitalSignal & Image Processing Applications",IEEE 1-4244-0969-2007.