

Ranjan S. and Majhi S., Prescribed-Time Attitude and Altitude Stabilization of Hexarotor UAV with External Disturbances, 28th International Conference on Methods and Models in Automation and Robotics, Poland, Aug 27-30, 2024.

Ranjan S. and Majhi S., Adaptive Neural Attitude and Altitude Control of a Quadrotor UAV with External Disturbances via Sliding Mode Control, 5th Int Conf on Control, Communication and Computing, CET Thiruvananthapuram, May 19-21, 2023.

Pandey S. and Majhi S., Modeling of Integrating and Non-minimum Phase Dynamics using Limit Cycles, 61st IEEE Conf. on Decision and Control, Cancun, Mexico, Dec 6-9, 2022.

Mazumdar A., Krishnaswamy S. and Majhi S., H_∞ Control of Smooth Nonlinear Systems, 7th IFAC Conf. on Advances in Control & Optimization of Dynamical Systems, ACODS 2022, NIT Silchar, Assam, India, Feb 22-25, 2022.

Das K., Bhonje S., Krishnaswamy S. and Majhi S., An Empirical Method for Approximate H_2 Optimal Model Order Reduction, 7th IFAC Conf. on Advances in Control & Optimization of Dynamical Systems, ACODS 2022, NIT Silchar, Assam, India, Feb 22-25, 2022.

Das K., Krishnaswamy S. and Majhi S., Empirical Computation of Reachability Gramian for Linear-Time Varying Systems, IFAC-PapersOnline, Vol. 54, Issue 9, pp. 119-124, Aug 2021.

Das K., Krishnaswamy S. and Majhi S., Empirical Computation of Reachability Gramian for Linear-Time Varying Systems, 24th Int. Symp. On Mathematical Theory of Networks and Systems, Cambridge, UK, August 23-27, 2021.

Manjari K. and Majhi S., Generalized Predictive Control of Pre-compensated DC-DC Buck Converter, IEEE Int. Conf. on Power Electronics, Drives and Energy Systems (PEDES). MNIT Jaipur, 16-19 December 2020.

Biswas M., Majhi S. and Nemade H., Ripple Improvement and Steady State Analysis of a Boost Converter with Higher Step-up Ratio, IET Conf. Power Electronics, Machines and Drives, Nottingham, UK, 15-17 December 2020.

Biswas M., Majhi S. and Nemade H., A Larger Step-down Ratio Buck Converter with Reduced Ripple in Input Current and Output Voltage, Proc. of IEEE Conference PESGRE, Cochin, India, 2-4 January 2020.

Manjari K. and Majhi S., Generalized Predictive Control Tuning for Desired Frequency Domain Specification, Proc. of TENCON'19, Kochi, 17-20 October 2019.

Meher T., Majhi S. and Kasi V., Hammerstein Modeling of Buck Converter using Relay Feedback, Proc. of TENCON'19, Kochi, 17-20 October 2019.

Pandey S., Majhi S. and Ghorai P., Parameter Estimation and Control of Time Delay SISO Systems, IEEE American Control Conference, pp. 5161-5166, Philadelphia, PA, USA, 10-12 July 2019.

Ghorai P., Majhi S. and Pandey S., Closed Loop Relay Experiment for Modeling of Underdamped Plant Dynamics, Proc. of 5th Indian Control Conference, pp. 424-429, IIT Delhi, 9-11 January 2019.

Manjari K and Majhi S., Model Predictive Control of Single-Inductor Dual-Output Buck Converter, 2018 IEEE Int. Conf. on Power Electronics, Drives and Energy Systems (PEDES), pp. 1-6, IIT Madras, 18-21 December 2018.

Mazumdar A., Krishnaswamy S. and Majhi S., Linear Quadratic Optimal Control of Jump System over Multiple Erasure Channel, Proc. of 23rd Int Symp. on Mathematical Theory of Networks and Systems, pp. 716-721, HKUST, Hong Kong, July 16-20, 2018.

Karteeq Y.V., Kar I. and Majhi S., Consensus of Distributed Second Order Multi-agent System with Saturation and Uneven Time-Delays, IFAC-PapersOnline, Vol.51, Issue 1, pp. 586-591, July 2018.

Karteeq Y.V., Kar I. and Majhi S., Consensus of Distributed Second Order Multi-agent System with Saturation and Uneven Time-Delays, 3rd IFAC Conf on Advances in Control and Optimization of Dynamical Systems, Hyderabad, India, Feb 18-22 2018.

Ghorai P. and Majhi S., Relay Autotuning and Dynamic Parameters Estimation of Dead-Time Processes, Proc. of CHEMCON-2017, Haldia Regional Center, India, Dec 27-30, 2017.

Sethia G., Majhi S. and Nayak S.K., Estimation of State of Charge of Li-ion Battery in EVs using Relay Feedback Approach and Super Twisting Sliding Mode Observer, Proc. of 56th IEEE Conference on Decision and Control, Melbourne, Australia, Dec 12-15, 2017.

Mazumdar A., Krishnaswamy S. and Majhi S., H_∞ Optimal Control over Erasure Channel, IFACPapersOnline, Vol.50, Issue 1, pp. 349-354, July 2017.

Mazumdar A., Krishnaswamy S. and Majhi S., H_∞ Optimal Control over Erasure Channel, Proc. of 20th IFAC World Congress, Toulouse, France, July 9-14, 2017.

Ghorai P., Majhi S. and Pandey S., State Space Approach for Identification of Real Time Plant Dynamics, Proc. of 3rd Indian Control Conference, IIT Guwahati, Jan 4-6, 2017.

Ghorai P., Majhi S. and Pandey S., A New Relay Feedback Scheme for Identification of Non-minimum Phase Processes with Time Delay, Proc. of 55th IEEE Conference on Decision and Control, Las Vegas, USA, Dec 12-14, 2016.

Kasi V., Majhi S. and Gogoi A., Estimation of Stable FOPDT and SOPDT Process Using Dual Input Describing Function, Int. Conf. on Industrial and Information Systems, IIT Roorkee, Dec 3-4, 2016.

Kasi V., Majhi S. and Gogoi A., Identification of Higher Order Critically Damped Systems using Relay Feedback Test, IEEE Conf. on Power Electronics, Intelligent Control and Energy Systems, Delhi Technical University, Delhi, July 4-6, 2016.

Pandey S. and Majhi S., Limit Cycle Based Identification of Second Order Processes with Time Delay, Proc. of IEEE 2nd Indian Control Conference, IIT Hyderabad, 4-6 January 2016.

Baruah G., Majhi S. and Mahanta C., Fractional Order PID Controller Design for an SOPDT Model by Online Tuning Method, Proc. of IEEE 2nd Indian Control Conference, IIT Hyderabad, 4-6 January 2016.

Naik M.B., Gonzalo S., Kumar P. and Majhi S., Analysis of Sustainable Public Transportation System and its Interaction with the Grid, IEEE Power and Energy Society General Meeting, Denver, USA, 26-30 July 2015.

Baruah G., Majhi S. and Mahanta C., Design of FOPID Controllers for SOPDT Process, Proc. of IEEE International Conference on Energy, Power & Environment-Towards Sustainable Growth, NIT Shillong, 12-13 June 2015.

Baruah G., Majhi S. and Mahanta C., Fractional Order PID Controller Design For an FOPDT Model by Online Tuning Method, Proc. of IEEE International Conference on Industrial Instrumentation & Control, COEP, Pune, 28- 30 May 2015.

Pandey S. and Majhi S., Frequency Domain based Identification of Processes Using Limit Cycle Information, Proc. of IEEE International Conference on Industrial Instrumentation & Control, COEP, Pune, 28-30 May 2015.

Baruah G., Majhi S. and Mahanta C., Relay Based Identification of a Simple Fractional Order Time Delay System, Proc. of IEEE 1st Indian Control Conference, IIT Madras, 5-7 January 2015.

Baruah G., Majhi S. and Mahanta C., On-Line Tuning of Fractional Order Pi Controller for an FOPDT System, Proc. of IEEE 1st Indian Control Conference, IIT Madras, 5-7 January 2015.

Naik M.B., Ranjan A., Gunawat V., Kumar P. and Majhi S., A brilliant Public Transportation System linked with Electric Vehicles in coordination with the Grid, 11IEEE INDICON, Yashada, Pune, India, 11-13 Dec 2014.

Karteek Y. V., Kar I. and Majhi S., Consensus in Multi-Agent Systems with Switching Topologies using Position Based Back-Stepping, Proc. of 11th IEEE INDICON, Yashada, Pune, India, 11-13 Dec 2014.

Pandey S. and Majhi S., Feedback Test for Identification of a Class of SISO Processes Using Process Reaction Curve, 3rd National Symposium on Advances in Control & Instrumentation (SACI-2014), BARC, Bombay; Nov 2014.

Kasi V., Kannan T., Kumar P. and Majhi S., Node Identification for Placing EVs and PAs in a Distribution Network, IEEE PES General Meeting, Washington, July 27-31, 2014.

Pandey S. and Majhi S., Estimation of Process Dynamics using Biased Relay Feedback Approach, Proc. of the Third International Conference on Advances in Control and Optimization of Dynamical Systems, IIT Kanpur, India, 13- 15 March 2014.

Pandey S. and Majhi S., Relay based Identification of Process Dynamics under Noisy Environment, Proc. of the International Conference on Control, Automation, Robotics and Embedded Systems, IIITDM Jabalpur, India, 16- 18 Dec 2013.

Naik M.B., Kumar, P. and Majhi S., Analysis of City-Capabus Transportation System Failures and Solutions with FLC, IEEE Conference on Intelligent Transportation Systems, Proceedings, ITSC, pp. 1900-1905, The Netherlands, 2013.

Pandey S. and Majhi S., Identification of System Dynamics in Presence of Measurement Noise, Proc. of IEEE INDICON, IIT Bombay, India, 13-15 Dec 2013.

Bajarangbali R and Majhi S., Modeling of Stable and Unstable Second Order Systems with Time Delay, Proc. of IEEE INDICON, IIT Bombay, India, 13-15 Dec 2013.

Bajarangbali and Majhi S., Modelling of Integrating and Unstable Time Delay Processes, Recent Advancements in System Modelling Applications, Lecture Notes in Electrical Engineering, Vol. 188, pp. 311-318, Springer India, 2013.

Bajarangbali and Majhi S., Smart Relay Based Online Estimation of Process Model Parameters, 2nd International Conference on Soft Computing for Problem Solving (SocProS 2012), Jaipur, 28-30 Dec 2012.

Bajarangbali and Majhi S., TITO System Identification using Relay with Hysteresis, 1st IEEE International Conference on Power and Energy in NERIST, 2012, December 28 - 29, 2012.

Bajarangbali and Majhi S., Modelling of Integrating and Unstable Time Delay Processes, 36th National Systems Conference (NSC 2012), Annamalainagar, December 6 - 8, 2012.

Bajarangbali and Majhi S., Relay Based Identification of Systems, International Conf on Emerging Trends (ICET 2012), NIT Durgapur, India, March 23-25, 2012 .

Padhan D. and Majhi S., Synthesis of PID Tuning for a New Parallel Cascade Control Structure, IFAC Conference on Advances in PID Control, March 28-30, Brescia, Italy, 2012.

Mehta U. and Majhi S., FPAA-Based PI Controller for DC Servo Position Control System, IFAC Conference on Advances in PID Control, March 28-30, Brescia, Italy, 2012.

Padhan D. and Majhi S., Improved Parallel Cascade Control Structure for Time Delay Processes, Proc. of INDICON 2011, Hyderabad, Dec 2011.

Padhan D. and Majhi S., An Improved Cascade Control Structure for Time Delay Processes, Proc. of 35th NSC 2011, IIT Bhubaneswar, Dec 2011.

Mehta U. and Majhi S., On-Line Relay Autotuning for Process Identification, Proc. of 35th NSC 2011, IIT Bhubaneswar, Dec 2011.

Parmar K.P.S., Majhi S. and Kothari D.P., Multi-Area Load Frequency Control in a Power System Using Optimal Output Feedback Method, Proc. of PEDES-2010-POWER INDIA, New Delhi, 21-23 Dec 2010.

Padhan D. and Majhi S., A Two-degree-of-freedom Control Scheme for Improved Performance of Unstable Delay Processes, Proc. of 6th ICECE, pp. 251-254, Dhaka, 18-20 Dec 2010.

Parmar K.P.S., Majhi S. and Kothari D.P., Automatic Generation Control of an Interconnected Hydrothermal Power System, Proc. of INDICON 2010, Kolkata, 17-19 Dec 2010.

Mehta U. and Majhi S., Modeling and Control of Nonlinear Systems With Input Monotonic Gains, Proc. of INDICON 2010, Kolkata, 17-19 Dec 2010.

Mehta U. and Majhi S., On-line Identification and Control Methods for PID Controllers, Proc. of 34th NSC 2010, Surathkal, 10-12 Dec 2010.

Mehta U. and Majhi S., Online tuning method for PID Controllers, Proc. of ICARCV 2010, Singapore, 7-10 Dec 2010.

Mehta U. and Majhi S., An online relay feedback scheme for cascade control systems, Proc. of 34th NSC 2010, Surathkal, 10-12 Dec 2010.

Mehta U. and Majhi S., Autotuning of PI Controller for an Unstable FOPDT Process, Proc. of CERA09, IIT Roorkee, 19-21 Feb 2010.

Padhan D. and Majhi S., Modified Smith Predictor and Controller for Stable and Unstable Processes, Proc. of CERA09, IIT Roorkee, 19-21 Feb 2010.

Padhy P.K., Chaturvedi A. and Majhi S., Design of PI-PD controller for active queue management (AQM), Proc. of National Conference on Advances in Computational Intelligence Applications in Power, Control, Signal Processing and Telecommunications (NCACI-2009), Bhubaneswar, Mar 2009.

Padhy P.K. and Majhi S., PID controller for stable processes, Proc. of National Conference on Advances in Computational Intelligence Applications in Power, Control, Signal Processing and Telecommunications (NCACI2009), Bhubaneswar, Mar 2009.

Mehta U. and Majhi S., Identification of a Class of Nonminimum Phase Processes using Relay Feedback, Int. Conf. on Advanced Control Systems and NSC, DEI, India, Nov 2009.

Ali A. and Majhi S., Controller Design for Unstable FOPDT Plants Based on Sensitivity, Proc. of 17th IFAC World Congress, Seoul, July 2008.

Ali A. and Majhi S., A New Objective Function for Controller Tuning, Proc. of 17th IFAC World Congress, Seoul, July 2008.

Mehta U. and Majhi S., Adaptive Relay Based Identification and Control of Hammerstein-Type Nonlinear Processes, IEEE INDICON, IIT Kanpur, India, 2008.

Mehta U. and Majhi S., Identification and Control of Wiener-Type Nonlinear Processes, National Systems Conference, 2008.

Ali A. and Majhi S., PI Tuning for Integrating Processes, National Systems Conference, 2008.

Baburaj P. and Majhi S., Modified Smith Predictor for Network Congestion Control. Proc. of ADCOM2007, IIT Guwahati, Dec 2007.

Baburaj P. and Majhi S., Modified Smith Predictor based Active Queue Management Scheme for Network Congestion Control. IEEE INDICON, Bangalore, Sept 2007.

Boidi C.R. and Majhi S., Affine Projection Algorithm for On Line Secondary Path Modeling in Active Noise Control Systems. IEEE INDICON, Bangalore, Sept 2007.

Srinibas P. and Majhi S., FPAAs Based Automatic Tuning of Industrial Controllers. IEEE INDICON, Bangalore, Sept 2007.

Ali A. and Majhi S., Controller Tuning by an Adaptive Bacterial Foraging Strategy, National Systems Conference, December 2007.

Padhy P.K. and Majhi S., An Exact Method for On-Line Identification of FOPDT Processes. Proc. of IEEE Conference on Industrial Technology, ICIT06, Mumbai, Dec 2006.

Padhy P.K. and Majhi S., Identification of TITO Processes. Proc. of IEEE Conference on Industrial Technology, ICIT06, Mumbai, Dec 2006.

Ali A. and Majhi S., Design of Optimum PID Controller by Bacteria-Foraging Strategy. Proc. of IEEE Conference on Industrial Technology, Mumbai, Dec 2006.

Padhy P.K. and Majhi S., On-Line Mobile Robot Path Tracking using PI Controller. Proc. of IEEE INDICON-06, New Delhi, Sept 2006.

Baburaj P. and Majhi S., Modified Smith Predictor Controller for Network Congestion Control. Proc. of IEEE INDICON-06, New Delhi, Sept 2006.

Majhi S. and Padhy P.K., Relay Based Identification of Time Delay Processes. Proc. of 30th National Systems Conference, Dona Paula, Goa, Nov 2006.

Padhy P.K. and Majhi S., Automatic Tuning of Fuzzy PID Controllers. Proc. of 29th National Systems Conference (NSC), IIT Bombay, Dec 2005.

Majhi S., On-Line Tuning of Controllers for Unstable Processes. Proc. of 29th National Systems Conference (NSC), IIT Bombay, Dec 2005.

Padhy P.K., Majhi S. and Atherton D.P., P-PID Controller for TITO Systems. Proc. of 16th IFAC World Congress, Prague, July 4-8, 2005.

Padhy P.K. and Majhi S., Closed Loop Identification of TITO Systems, Proc. of SICPRO 2005, Moscow, pp. 849- 856, Jan 25-28, 2005.

Padhy P.K. and Majhi S., Relay Based PID Controller Tuning of a TITO System, Proc. of SICPRO 2005, Moscow, pp.857-865, Jan 25-28, 2005.

Padhy P.K. and Majhi S., Parametric Identification of Nonlinear Systems. Proc. of IEEE INDICON-04, IIT Kharagpur, Dec 2004.

Padhy P.K. and Majhi S., Closed Loop Identification of TITO Systems. Proc. of APSC-04, NIT Rourkela, Nov 2004.

Majhi S. and Atherton D.P., On line Tuning of Controllers for Unstable Processes. Proc. of Control-2004, Faro, Portugal, June 2004.

Majhi S. and Atherton D.P., A Simple Design Method for Smith Predictor Controllers. Proc. of Control-2004, Faro, Portugal, June 2004.

Viraiya P., Majhi S. and Mahanta C., Fuzzy PI-PD Controllers. Proc. of IEEE American Control Conference, Boston, USA, June 2004.

Kumar K.H. and Majhi S., Queuing Theory based Open Loop Control of Web Server. Proc. of IEEE American Control Conference, Boston, USA, June 2004.

Majhi S. and Litz L., Relay Based Identification of Process Model Parameters. Proc. of IEEE American Control Conference, Denver, USA, pp. 2949-2953, June 4-6 2003.

Majhi S. and Litz L., On-line Tuning of PID Controllers. Proc. of IEEE American Control Conference, Denver, USA, pp. 6003-6004, June 4-6 2003.

Sarma S. and Majhi S., Design and Implementation of Digital Controller Using Subband Coding. Proc. of IFAC Conference ICONS-03, Faro, Portugal, pp. 550-555, April 8-11 2003.

Majhi S., Parametric Process Model for Controller Design. Proc. of 4th MATHMOD International Conference, Vienna, Austria, pp. 47-52, February 5-7, 2003.

Sarma S., Majhi S. and Gogoi A.K., Digital Controller Implementation by Block Digital Filtering. Proc. of IEEE Conference on Control Applications, Glasgow, U.K, 2002.

Majhi S. and Chakrabarty I., Prediction of Limit Cycles in Multi-Loop Relay Systems. Proc. of CERA 02, IIT Roorkee, India, pp. 425-429, 2002.

Majhi S., Sahambi J.S. and Atherton D.P., Relay Feedback and Wavelet Based Estimation of Plant Model Parameters. Proc. of 40th IEEE Conf. CDC-2001, Orlando, USA, pp. 3326-3331, 2001.

Majhi S., Simple Controllers for Integrating and Unstable Time delay Processes. Proc. of 25th National Systems Conference (NSC-2001), PSG Tech., Coimbatore, India, pp. 397-400, 2001.

Majhi S., SISO Controllers for TITO Systems. Proc. of International Conf. EAIT 2001, IIT Kharagpur, India, pp. 723- 726, 2001.

Majhi S., Raina A.K. and Atherton D.P., A New Control Strategy For Integrating and Unstable Time Delay Processes. Proc. of European Control Conference(ECC-2001), Porto, Portugal, pp. 3012-3016, Sept 2001.

Raina A.K. and Majhi S., On the Entropy and Spectral Radius of Finite-State Machines. Proc. of European Control Conference (ECC-2001), Porto, Portugal, pp. 781-784, Sept 2001.

Majhi S. and Mahanta C., Tuning of Controllers For Integrating Time Delay Processes. Proc. of IEEE Conf. TENCON, Singapore, pp. 317-320 Aug 2001.

Majhi S. and Atherton D.P., Automatic Tuning of the Modified Smith Predictor Controllers. Proc. of IEEE Conf. CDC-2000, pp. 1116-1120, Sydney, Australia, Dec 2000.

Majhi S. and Atherton D.P., An Internal Model Control for Disturbance Rejection. Proc. of International Conf. CONTROL-2000, Guemeras, Portugal, Sept 2000.

Majhi S. and Atherton D.P., An Autotuning Method for PID Controllers. Proc. of Intl. Conf. on CCSP-2000, IISc. Bangalore, India, pp. 427-431, July 2000.

Atherton D.P. and Majhi S., Modelling and Controller Design. Proc. 3rd Int. Symposium on MATHMOD, Vienna, Austria, Vol. II, 773-776, 2000.

Atherton D.P. and Majhi S., Limitations of PID Controllers. Proc. of IEEE American Control Conference-99, San Diego, USA, pp. 3843-3847, 1999.

Majhi S. and Atherton D.P., A Novel Relay Feedback Identification Method. Proc. of 5th European Control Conference, (ECC-1999) Karlsruhe, Germany, 1999.

Majhi S. and Atherton D.P., Relay Feedback Identification of Nonminimum Phase Systems. Proc. of 2nd Int. Conf. on Control of Industrial Processes (ICCIP), New Castle upon Tyne, UK, 245-248, 1999.

Majhi S. and Atherton D.P., Controllers for Nonminimum Phase Systems. Proc. of 2nd Int. Conf. on Control of Industrial Processes (ICCIP), New Castle upon Tyne, UK, 132-135, 1999.

Majhi S. and Atherton D.P., A new Smith Predictor and Controller for Unstable and Integrating Processes with Time Delay. Proc. of IEEE Conf. on Decision and Control, Tampa, Florida, USA, 1341-1345, Dec 1998.

Atherton D.P. and Majhi S., Plant Parameters Identification Under Relay Control. Proc. of IEEE Conf. on Decision and Control, Tampa, Florida, USA, 1272-1277, Dec 1998.

Majhi S. and Atherton D.P., Stability of Limit Cycles in Relay Control Systems. Proc. of 4th IFAC Symposium on NOLCOS, Twenty, The Netherlands, Vol. 40 (4), 39-48, 1998.

Majhi S. and Atherton D.P., Autotuning and Controller Design for Unstable Time Delay Processes. Proc. of IEE Conf. CONTROL'98, Swansea, UK, Vol. 1, No. 445, 769-774, 1998.

Atherton D.P. and Majhi S., Tuning of Optimum PIPD Controllers. Proc. of Intl. Conference CONTROL'98, Coimbra, Portugal, Vol. 68, No. 3, 449-460, 1998.

Patra K.C., Majhi S. and Panda A.K., Dynamic Neural Network for Short Range Load Forecasting. Proc. of 41st Annual Souvenir, Orissa Engg. Congress (OEC), Bhubaneswar, India, 159-165. (awarded first prize and gold medal), 1996.

Patra K.C. and Majhi S., Adaptive Neural Network for the Prediction of Self-oscillations in Non-linear Multivariable Systems. Proc. of 19th National Systems Conf (NSC-1996), PSGT, Coimbatore, India, Dec. 14-16, 1996.

Panda A.K. and Majhi S., Torque Pulsations in IM with CSI Drives. Proc. of 18th National Systems Conference (NSC-1995), Agra, India, Jan. 14-16 1995.

Majhi S., Patra K.C. and Maity M.M., ANN Application to Short Range Load Forecasting at Talcher. Proc. of National Conference on ECIPM, Talcher, India, pp. 21-27, March 13-14 1995.

Patra K.C. and Majhi S., Application of Dynamic Neural Network in the Prediction of Self-Oscillations in Nonlinear Multivariable Systems. Proc. of 40th Annual Souvenir, Orissa Engg. Cong.(OEC), Bhubaneswar, India. (awarded first prize and gold medal), 1995.

Patra K.C., Swain A.K. and Majhi S., Application of Neural Network in the Prediction of Self-Oscillations and Signal Stabilisation in Nonlinear Multivariable Systems. Proc. of IEEE Conf., ANZIIS, Perth, Australia, pp. 585-589, 1993.