Ranjan S. and **Majhi S.**, Fixed-time State Observer Based Robust Adaptive Neural Fault-tolerant Control for a Quadrotor Unmanned Aerial vehicle, International Journal of Adaptive Control and Signal Processing, 2024.

Ranjan S. and **Majhi S.**, Adaptive Neural Predefined-Time Attitude Control of an Uncertain Quadrotor UAV with Actuator Fault, IEEE Trans on Circuits and Systems II: Express Briefs, 2024.

Das K., **Krishnaswamy S.** and **Majhi S.**, Near Optimal Interpolation based Time-Limited Model Order Reduction, International Journal of Control, Vol. 97, No. 4, pp. 773-783, 2024.

Ghorai P., Majhi S., Eskandarian A., Pandey S. and **Kasi V.**, Modeling and Estimation of Dynamics of Time-Delayed Plants/Processes, International Journal of Dynamics and Control, Vol. 11, Issue 1, pp. 183-193, Feb 2023.

Das K., Krishnaswamy S. and Majhi S., H2 Optimal Model Order Reduction over a Finite Time Interval, IEEE Control Systems Letters, Vol. 6, pp. 2467-2472, 2022.

Mazumdar A., **Krishnaswamy S.** and **Majhi S.**, On Passivity, Feedback Passivity, and Feedback Passivity over Erasure Network, International Journal of Systems Science, Vol.52, No. 5, 2022.

Mazumdar A., Krishnaswamy S. and Majhi S., H_∞ Optimal Control of Jump Systems Over Multiple Lossy Communication Channels, IMA Journal of Mathematical Control and Information, Vol. 38, Issue 3, pp. 822-854, 2021.

Biswas M., **Majhi S.** and **Nemade H.**, Design and Analysis of a High-Efficiency Two-Phase Interleaved Boost Converter with Modified Conversion Ratio and Low Voltage Stress, Journal of Circuits, Systems and Computers, Vol. 30, No. 9, July 2021.

Mazumdar A., **Krishnaswamy S.** and **Majhi S.**, H_Infinity Optimal Control Over Multiple Gilbert-Elliott type Communication Channels, IFAC Journal of Systems and Control, Vol. 16, June 2021.

Biswas M., **Majhi S.** and **Nemade H.**, A High Step-Down DC-DC Converter with Reduced Input Current Ripple and Output Voltage Ripple, IEEE Transactions on Industry Applications, Vol 57, Issue 2, pp. 1559-1571, April 2021.

Sethia G., **Nayak S.K.** and **Majhi S.**, Approach to Estimate Lithium-ion Battery State of Charge Based on Adaptive Lyapunov Super Twisting Observer, IEEE Transactions on Circuits and Systems I: Regular Papers, Vol. 68, Issue 3, pp. 1319-1329, March 2021.

Sethia G., Nayak S.K. and **Majhi S.**, Strict Lyapunov Super Twisting Observer Design for State of Charge Prediction of Lithium-ion Batteries, IET Journal on Renewable Power Generation, Vol. 15, Issue 2, pp. 424-435, February 2021.

Biswas M., **Majhi S.** and **Nemade H.**, Performance of a Coupled Inductor for Interleaved Buck Converter with Improved Step-down Conversion Ratio, IET Journal on Power Electronics, Vol. 14, Issue 2, pp. 239-256, February 2021.

Ghorai P., Majhi S., Pandey S. and **Kasi V.,** Transfer Function Identification of a Liquid Flow-line Pressure Control System from Simple Relay Auto-tuning, Transactions of the Institute of Measurement and Control, Vol. 43, Issue 4, pp. 792-801, Feb 2021.

Meher T. and **Majhi S.**, An Improved Relay Feedback Identification Technique for Hammerstein Model, International Journal of Dynamics and Control, Vol. 8 (3), pp. 952-962, Sept 2020.

Pandey S. and **Majhi S.**, System Identification under Relay and PI Control, IEEE Trans on Circuits and Systems II: Express Briefs, Vol. 67, Issue 6, pp. 1089-1093, June 2020.

Meher T. and **Majhi S.**, Relay Based Identification of Wiener Model, IET Journal on Circuits, Devices and Systems, Vol. 8, Issue 3, pp. 398-406, May 2020.

Manjari K., Majhi S. and **Kasi V.,** Pre-computed Generalized Predictive Control of a DC-DC Buck Converter, IET Journal on Circuits, Devices and Systems, Vol. 14, Issue 1, pp. 41-47, January 2020.

Biswas M., Majhi S. and **Nemade H.,** Two-Phase High Efficiency Interleaved Buck Converter with Improved Step-down Conversion Ratio and Low Voltage Stress, IET Journal on Power Electronics, Vol. 12, Issue 15, pp. 3942-3952, December 2019.

Pandey S. and **Majhi S.**, Relay Based Identification Scheme for Processes with Non-minimum Phase and Time Delay, IET Journal on Control Theory and Applications, Vol. 13, Issue 15, pp. 2507-2519, October 2019.

Baruah G., Majhi S. and **Mahanta C.**, Auto-tuning of FOPI Controllers for TITO Processes with Experimental Validation, International Journal of Automation and Computing, Vol. 16, No. 5, pp. 589-603, October 2019.

Ghorai P., Majhi S., Kasi V. and **Pandey S.,** Parameter Identification of Delayed Underdamped Systems Using On-Line Relay Autotuning, IEEE Trans on Circuits and Systems II: Express Briefs, Vol. 66, Issue 7, pp. 1197-1201, July 2019.

Baruah G., **Majhi S.** and **Mahanta C.**, Design of FOPI Controller for Time Delay Systems and its Experimental Validation, International Journal of Automation and Computing, Vol. 16, No. 3, pp. 310-328, June 2019.

Kasi V., Majhi S. and **Gogoi A.**, Medelling and Estimation of DC-DC Buck Converter Dynamics using Relay Feedback Output with Performance Evaluation, IEEE Trans on Circuits and Systems II: Express Briefs, Vol. 66, Issue 3, pp. 427-431, March 2019.

Naik M.B., **Kumar P.** and **Majhi S.**, Smart Public Transportation Network Expansion and its Interaction with the Grid, International Journal of Electrical Power and Energy Systems, Vol. 105, pp. 365-380, February 2019.

Bajarangbali and **Majhi S.**, Estimation of First and Second Order Process Models, Proceedings of The National Academy of Sciences (NASA), Vol. 88 (4), pp. 557-563, December 2018.

Pandey S., **Majhi S.** and **Ghorai P.**, Limit Cycle Based Identification of Time Delay SISO Processes, IFAC Journal of Systems and Control, Vol. 6, pp. 43-52, December 2018.

Meher T. and **Majhi S.**, Relay Based Identification of Hammerstein Model, International Journal of Dynamics and Control, Vol. 6 (4), pp. 1599-1607, December 2018.

Kasi V., Majhi S. and **Gogoi A.**, Identification of DC-DC Buck Converter Dynamics using Relay Feedback Method with Experimental Validation, IET Circuits, Devices and Systems, Vol. 12, Issue 6, pp. 777-784, November 2018.

Kasi V., Majhi S. and **Gogoi A.**, Identification and PID Tuning Techniques for Stable and Unstable SOPDT Processes, International Journal of Dynamics and Control, Vol. 6 (3), pp. 1194-1206, Sept 2018.

Ghorai P., Majhi S. and **Pandey S.**, A Real-Time Approach for Dead-Time Plant Transfer Function Modeling Based on Relay Autotuning, International Journal of Dynamics and Control, Vol. 6 (3), pp. 950-960, Sept 2018.

Naik M.B., **Kumar P.** and **Majhi S.**, Optimal Number of E-Buses in the Solar Assisted Smart Public Transit System and Its Failure Analysis, IET Electrical Systems in Transportation, Vol. 8(1), pp. 61-70, March 2018

Karteek Y.V., **Kar I.** and **Majhi S.**, Consensus of Second Order Multi-agents with Actuator Saturation and Asynchronous Time-Delays, IET Control Theory and Applications, Vol.11 (17), pp. 3201-3210, 2017.

Karteek Y.V., **Kar I.** and **Majhi S.**, Consensus of Multi-Agent Systems using Back-tracking and History Following Algorithms, International Journal of Robotics and Automation, Vol. 32 (4), pp. 369-378, 2017.

Naik M.B., **Kumar P.** and **Majhi S.**, Small-scale Solar Plants Coupled with Smart Public Transportation System and its Coordination with the Grid, IET Electrical Systems in Transportation, Vol. 7, Issue 2, pp. 135-144, June 2017.

Pandey S., Majhi S. and **Ghorai P.**, A New Modelling and Identification Scheme for Time Delay Systems with Experimental Investigation: A Relay Feedback Approach, International Journal of Systems Science, Vol. 48 (9), pp. 1932-1940, 2017.

Pandey S. and **Majhi S.**, Identification and Control of Unstable FOPDT Processes with Improved Transients, IET Electronics Letters, Vol. 53(5), pp. 312-314, 2017.

Ghorai P., Majhi S. and **Pandey S.,** Modelling and Identification of Real Time Processes based on Non-zero Setpoint Autotuning Test, Journal of Dynamic Systems, Measurement and Control (Trans. of the ASME), Vol. 139, Issue 2, pp. 0210101-8, February 2017.

Pandey S. and **Majhi S.**, Limit Cycle based Exact Estimation of FOPDT Process Parameters under Input / Output Disturbances, International Journal of Systems Science, Vol. 48, Issue 1, pp. 118-128, 2017.

Kasi V., Majhi S. and **Gogoi A.**, System Identification and Control of Underdamped System using Dual Input Describing Function, Journal of Control and Systems Engineering. Vol. 4, Issue 1, pp. 51-61, Dec 31, 2016.

Baruah G., **Majhi S.** and **Mahanta C.**, Auto-tuning of Fractional Order PID Controller for a Class of Processes and Experimental Validation using a Coupled Tank System, Journal of Control and Systems Engineering, Vol. 4, Issue 1, pp. 121-140, Dec 31, 2016.

Ghorai P., Majhi S. and **Pandey S.**, Dynamic Model Identification of a Real-Time Simple Level Control System, Journal of Control and Decision, Vol. 3, Issue 4, pp. 248-266, Aug 16, 2016.

Bajarangbali and **Majhi S.**, Identification of Non-minimum Phase Processes with Time Delay in the Presence of Measurement Noise, ISA Transactions, Vol. 57, Issue 4, pp. 245-253, 2015.

Bajarangbali and **Majhi S.**, Identification of Integrating and Critically Damped Systems with Time Delay, Journal of Control Theory and Technology, Vol. 13, No.1, pp. 29-36, 2015.

Bajarangbali and **Majhi S.**, Identification of Underdamped Process Dynamics, Journal of Systems Science and Control Engineering, (open access), Vol 2, Issue 1, pp. 541-548, October 2014.

Bajarangbali, **Majhi S.** and **Pandey S.**, Identification of FOPDT and SOPDT Process Dynamics using Closed Loop Test, ISA Transactions, Vol. 53, Issue 4, pp. 1223-1231, July 2014.

Padhy P.K. and **Majhi S.**, Adaptive Integral Filter for the Identification of Two-Input Two-Output Processes, Int. J. Systems, Control and Communications, Vol. 6, No. 2, pp. 136-152, 2014.

Parmar K.P.S., **Majhi S.** and **Kothari D.P.**, LFC of an Interconnected Power System with Multi-source Power Generation in Deregulated Power Environment, International Journal of Electrical Power and Energy Systems (IJEPES), Vol. 57, pp. 277-286, May 2014.

Padhan D. and **Majhi S.**, A New Control Scheme for PID Load Frequency Controller of Single-area and Multi-area Power Systems, ISA Transactions, Vol.52, Issue 2, pp. 242-251, March 2013.

Padhan D. and **Majhi S.**, Enhanced Cascade Control for a Class of Integrating Processes with Time Delay, ISA Transactions, Vol.52, Issue 1, pp. 45-55, January 2013.

Parmar K.P.S., **Majhi S.** and **Kothari D.P.**, Load Frequency Control of a Realistic Power System with Multi Source Power Generation, International Journal of Electrical Power and Energy Systems (IJEPES), Volume 42, Issue 1, Pages 426-433, November 2012.

Mehta U. and **Majhi S.**, On-line Relay Test for Automatic Tuning of PI Controllers for Stable Processes, Transactions of the Institute of Measurement and Control, Vol. 34(7), pp. 903 - 913, 2012.

Padhan D. and **Majhi S.**, An Improved Parallel Cascade Control Structure for Processes with Time Delay, Journal of Process Control, Vol. 22, Issue 5, pp. 884-898, June 2012.

Bajarangbali and **Majhi S.**, Relay Based Identification of Systems, International Journal of Scientific and Engineering Research, Vol.3, Issue 6, June 2012.

Parmar K.P.S., **Majhi S.** and **Kothari D.P.**, LFC of an Interconnected Power System with Thyristor Controlled Phase Shifter in the Tie Line, International Journal of Computer Applications, Vol.41, No. 9, pp. 27-30, March 2012.

Parmar K.P.S., **Majhi S.** and **Kothari D.P.**, Improvement of Dynamic Performance of LFC of the Two Area Power System: an Analysis using MATLAB, International Journal of Computer Applications, Vol.40, No. 10, pp. 28-32, Feb 2012.

Padhan D. and **Majhi S.**, Modified Smith Predictor based Cascade Control of Unstable Time Delay Processes, ISA Transactions, Vol. 51, Issue 1, pp. 95-104, Jan 2012.

Padhy P.K., and **Majhi S.**, Exact Analysis for the Identification of Non-minimum Phase Processes, Journal of the Franklin Institute, Vol. 348, Issue 10, pp. 2734-2743, December 2011.

Padhan D. and **Majhi S.**, Modified Smith Predictor and Controller for Time Delay Processes, IET Electronics Letters, Vol. 47, Issue 17, pp. 959-961, Aug 2011.

Mehta U. and **Majhi S.**, On-line Identification of Cascade Control Systems based on Half Limit Cycle Data, ISA Transactions, Vol. 50, Issue 3, pp. 473-478, July 2011.

Ali A. and **Majhi S.**, Integral Criteria for Optimal Tuning of PI/PID Controllers for Integrating Processes, Asian Journal of Control, Vol. 13, No. 2, pp. 328-337, March 2011.

Parmar K.P.S., **Majhi S.** and **Kothari D.P.**, Optimal Load Frequency Control of an Interconnected Power System, International Journal of Electrical and Instrumentation Engg., Vol.1, No. 1, pp. 1-5, Jan 2011.

Mehta U. and **Majhi S.**, Identification of a class of Wiener and Hammerstein-type nonlinear processes with monotonic static gains, ISA Transactions, Vol.49, Issue 4, pp. 501-509, October 2010.

Ali A. and **Majhi S.**, PID Controller Tuning for Integrating Processes, ISA Transactions, Vol.49, Issue 1, pp. 70-78, January 2010.

Mehta U. and **Majhi S.**. Estimation of Process Model Parameters Based on Half Limit Cycle Data, Journal of Systems Science and Engineering, Sept. 2009.

Padhy P.K., and **Majhi S.**, Improved automatic tuning of PID controller for stable processes, ISA Transactions, Vol. 48, Issue 4, October 2009, pp. 423-427, Oct 2009.

Ali A. and **Majhi S.**, PI/PID Controller Design based on IMC and Percentage Overshoot Specification to Controller Setpoint Change, ISA Transactions, Vol. 48, No. 1, pp. 10-15, Jan 2009.

Ali A. and **Majhi S.**, Controller Tuning by an Adaptive Bacterial Foraging Strategy, Journal of Systems Science and Engineering, Vol. 17, No. 1, pp. 44-51, June 2008.

Majhi S., Relay Based Identification of Time Delay Processes. IFAC Journal of Process Control, Vol.17, Issue 2, pp. 93-101, Feb 2007.

Majhi S., Relay-Based Identification of a Class of Non-Minimum Phase SISO Processes. IEEE Transactions on Automatic Control, Vol. 52, No. 1, pp. 134-139, Jan 2007.

Padhy P.K. and **Majhi S.**, Relay based PI-PD design for stable and unstable FOPDT processes. Journal of Computers and Chemical Engineering, Vol.30, No.5, pp. 790-796, March 2006.

Padhy P.K. and **Majhi S.**, Tuning of PI Controller for Stable Processes. Paritantra, Journal of Systems Science and Engg., 2006.

Majhi S., On-Line PI Control of Stable Processes, IFAC Journal of Process Control, Vol.15, pp. 859-867, Dec 2005.

Majhi S. and **Litz L.**, Relay Based Closed Loop Tuning of PID Controllers. at-Automatisierungstechnik, Volume 52, Issue 05, Oldenbourg Verlag, pp. 202-208, May 2004.

Majhi S., Simple Controllers for Integrating and Unstable Time Delay Processes. Paritantra, Journal of Systems Science and Engg., Vol.7, No.1, pp. 1-5, Aug 2002.

Majhi S. and **Atherton D.P.**, Obtaining Controller Parameters for a new Smith Predictor using Autotuning. Automatica, 36(11), 1651-1658, 2000.

Majhi S. and **Atherton D.P.**, On-line Tuning of Controllers for Unstable FOPDT Processes. IEE Proc. Control Theory and Applns., 147, 421-427, 2000.

Majhi S. and **Atherton D.P.**, Autotuning and Controller Design for Processes with Small Time Delays. IEE Proc. Control Theory and Applns., 146, 415-425, 1999.

Majhi S. and **Atherton D.P.**, Modified Smith predictor and Controller for processes with Time Delays. IEE Proc. on Control Theory and Applns., 146, 359-366, 1999.

Majhi S. and **Patra, K.C.**, Power system transient studies by Damped trapezoidal integration program. Journal of the Institution of Engineers (IE) (Ind), 77, 33-35, 1996.