

LIST OF PUBLICATIONS

Sl. No.	Authors	Title of Paper	Name of Journal	Volume	Page	Year
1.	Gyan Wrat ,Prabhat Ranjan, Santosh Kr. Mishra , Joseph T Jose and J Das 4	Neural network-enhanced internal leakage analysis for efficient fault detection in heavy machinery hydraulic actuator cylinders	<i>Proc IMechE Part C: J Mechanical Engineering Science</i>		DOI: 10.1177/09544062241289309	2024
2.	Sawan Kumar,S anjoy K. Ghoshal, J. Das	Model-Based Single-Fault Disambiguation Using Temporal Information and Genetic Algorithm: A Case Study on Hydraulic Drive System	<i>Arabian Journal for Science and Engineering</i>	49	11289–11307	2024
3.	Sawan Kumar, Sanjoy K. Ghoshal, J. Das	System identification and sizing of actuator of HEMM through response surface method of parameter estimation	<i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i>	44	255	2022
4.	Joseph T. Jose , J. Das , Santosh Kr. Mishra & Gyan Wrat	Early detection and classification of internal leakage in boom actuator of mobile hydraulic machines using SVM	<i>Engineering Applications of Artificial Intelligence, Elsevier</i>	106 (2021)	104492	2021
5.	Joseph T. Jose , J. Das & Santosh Kr. Mishra	Dynamic Improvement of Hydraulic Excavator Using Pressure Feedback and Gain Scheduled Model Predictive Control	<i>IEEE SENSORS JOURNAL,</i>	VOL. 21, NO. 17	18526	2021

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6.	Prabhat Ranjan , Gyan Wrat Mohit Bhola , Santosh Kr. Mishra , J. Das	A novel approach for the energy recovery and position control of a hybrid hydraulic excavator	<i>ISA Transactions, Elsevier</i>	99 (2020)	387– 402	2020
7.	Gyan Wrat , Mohit Bhola , Prabhat Ranjan , Santosh Kr Mishra , J. Das	Energy saving and Fuzzy-PID position control of electro- hydraulic system by leakage compensation through proportional flow control valve	<i>ISA Transactions, Elsevier</i>	101 (2020)	269– 280	2020
8.	Ajit Kumar , K. Dasgupta, Jayanta Das	Achieving constant speed of a hydrostatic drive using controlled operation of the pump and enhancing its energy efficiency	<i>ISA Transactions, Elsevier</i>	90 (2019)	189– 201	2019
9.	K Dasgupta , Sanjoy K Ghoshal , Sujit Kumar and J Das	Dynamic analysis of an open-loop proportional valve controlled hydrostatic drive	<i>J Process Mechanical Engineering, Sage</i>	Volume: 233 issue: 6	1245- 1256	2019
10	Gyan Wrat, Prabhat Ranjan, Mohit Bhola, Santosh Kumar Mishra	Position control and performance analysis of hydraulic system using two pump-controlling strategies	<i>J Systems and Control Engineering, Sage</i>	Volume: 233 issue: 9,	page(s): 1093- 1105	2018

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	and J Das					
11	Santosh Kr. Mishra , GyanWr at, Prabhat Ranjan and J. Das	PID controller with feed forward estimation used for fault tolerant control of hydraulic system	<i>Journal of Mechanical Science and Technology, Springer</i>	32 (8) (2018)	3849 ~3855	2018
12	Sujit Kumar , K Dasgupta , SK Ghoshal and J Das	Dynamic analysis of a hydro-motor drive system using priority valve	<i>Proc IMechE Part E: J Process Mechanical Engineering, Sage</i>	Volume: 233 issue: 3,	page(s): 508-525	2018
13	Sujit Kumar ,K. Dasgupta , J. Das	Determination of the optimum steady-state performance of an openloop and a closed-loop valve-controlled hydro-motor drive: a design approach	<i>The Brazilian Society of Mechanical Sciences and Engineering, Springer</i>	(2018) 40:151	151	2018
14	J Das, Santosh Kumar Mishra, Rana Saha, Saikat Mookherjee and Dipankar Sanyal	Nonlinear modeling and PID control through experimental characterization for an electrohydraulic actuation system: System characterization with validation	<i>Journal of the Brazilian Society of Mechanical Sciences and Engineering, Springer,</i>	39, (2017)	pages 1177–1187	2017
15	Santosh Kr. Mishra , Jay Prakash Tripathi , J. Das , Sanjoy K. Ghoshal	Application of Parallel Multi-model Simulation Method for Condition Monitoring of a Power Hydraulic System	<i>Arabian Journal for Science and Engineering, Springer</i>	43,	pages 4501–4515	2017

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16	Jay Prakash Tripathi, Sanjoy K. Ghoshal, K. Dasgupta, J. Das	Bond graph modelling of a hydraulic cylinder-actuated planar manipulator	<i>Journal of the Brazilian Society of Mechanical Sciences and Engineering, Springer,</i>	39, (2017)	pages 4275–4287	2017
17	Ajit Kumar, K Dasgupta and J Das	Analysis of decay characteristics of an accumulator in an open-circuit hydrostatic system with pump loading	<i>Proc IMechE Part I: J Systems and Control Engineering</i> 2017, U.K. Sage	Volume: 231 issue: 4,	pages: 312-326	2017
18	Sarnendu Paul, Sanjoy K. Ghoshal, Subrata Samanta, Jayanta Das	Model-based single fault disambiguation and fault tolerant control for a hydraulic drive using receding horizon	<i>Journal of the Brazilian Society of Mechanical Sciences and Engineering, Springer,</i>	39, (2017)	pages 2405–2419	2017
19	J. Das, Santosh Kr. Mishra, Rama Shankar Paswan, Ajit Kumar, Sujit Kumar, R. Saha, S. Mookherjee	Characterization And Tracking Control Of A Nonlinear Electrohydraulic Valve-Cylinder System	<i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> 2016, Sage Publications, U.K.	Volume: 230 issue: 5,	pages: 371-384	2016
20	Jayanta Das, Santosh Kumar Mishra, Rana Saha, Saikat Mookherjee and Dipankar Sanyal	Actuation dynamic modeling and characterization of an electrohydraulic system	<i>Proc IMechE Part I: J Systems and Control Engineering</i> 2016, U.K. Sage	Volume: 230 issue: 6,	pages: 537-550	2016
21	B. K. Sarkar, J. Das, R.	Approaching Servoclass Tracking Performance by a	<i>Transactions on Mechatronics, IEEE/ASME</i>	Volume: 18, Issue:	Page: 1425-1430	2014

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	Saha, S. Mookherjee, and D. Sanyal	Proportional Valve- Controlled System		4, Aug. 2013		
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