

List of Conference Papers (2019-20)

S.No	Title of Paper	Conference	Authors
1.	Dynamic modeling and experimental validation of a single-link flexible manipulator	ECCOMAS Multibody Dynamics Conference, Duisburg, Germany, 15-18 July 2019	Nandihal P., Kumar V., Saha S. K., Singla A. Singh S. P. and Bera T. K.
2.	Object Detection and Gesture Control of Four-Wheel Mobile Robot	Fourth International Conference on Communication and Electronics Systems (ICCES 2019), Coimbatore, 17-19 July 2019	Jain M., Sehgal M., Kalra Y., Jain P., Aggarwal N., Singh R., Kumar D. and Bera T. K.
3.	Design of Knee Exoskeleton using Electromyography Sensor	Fourth International Conference on Communication and Electronics Systems (ICCES 2019), Coimbatore, 17-19 July 2019	Jain P., Himanshu G., Bhupendra M., Dharmendra Y., Aditya V., Kumar D. and Bera T. K.
4.	Bond Graph Based Modeling of Four-Cylinder In-line Engine and Study the Various Engine Characteristics Parameters	National Conference on Internal Combustion Engines and Combustion, NIT Kurukhetra, 1-4 November 2019	Singh R., Bera T. K. and Singh J.
5.	Bond Graph Aided Dynamic Analysis of Floating De-Coupler type Hydraulic Mount	International Conference on Advancements in Mechanical Engineering (ICAME2020), Aliah University Kolkata, 16-18 Jan 2020	Singh R., Bera T. K.

6.	Modelling and Analysis of Change in Shape of sintered Cu–TiC tool tip during Electrical Discharge Machining process.	Advances in Unconventional Machining and Composites 2020 . Springer, Singapore. November 2019.	Walia AS, Srivastava V, Jain V, Garg M.
7.	Re-using machining scrap: An alternative approach	International Conference on Frontiers in Green and Sustainable Energy, Toronto, Canada. October 21-22, 2019	Arshpreet Singh
8.	An Assessment of Residual Stresses and Micro-Structure during Single Point Incremental Forming of Commercially Pure Titanium Used in Biomedical Applications	International Conference on Recent Advances in Materials & Manufacturing Technologies, Dubai, UAE. Dec, 2019	Kumar R, Kumar G, Singh A.
9.	Surface roughness evaluation for electrical discharge machining using powder metallurgy tool	3rd International Conference on Condensed Matter and Applied Physics (ICC-2019). May 2020	Shard A, Deepshikha, Gupta V, Garg MP.
10.	Material removal rate during powder metallurgy Cu-Ti electrodes in electrical discharge machining of EN9 steel	3rd International Conference on Condensed Matter and Applied Physics (ICC-2019). May 2020	Shard A, Deepshikha, Gupta V, Garg MP.
11.	Mathematical Model of SMA Spring Actuator in a Miniature Flexible Tube Robot	4th International and 19th National Conference on Machines and Mechanisms. December 2019	Nisha Bhatt, Sanjeev Soni and Ashish Singla

12.	Comparison of PPC and LQR Controller for Stabilization of Cart Pendulum System: Simulation and Real Time Study	4th International and 19th National Conference on Machines and Mechanisms. December 2019	Gurminder Singh and Ashish Singla
13.	PI Control Based Modelling of Segway using Bond Graph	4th International and 19th National Conference on Machines and Mechanisms. December 2019	Ashish Kumar, Rajmeet Singh, Tarun Kumar Bera and Ashish Singla
14.	Evaluation of high temperature oxidation performance of bare and coated T91 steel	2nd International Conference on Recent Advances in Materials & Manufacturing Technologies. Jan 2020	Manoj Kumar, Deepa Mudgal, Lalit Ahuja
15.	High temperature corrosion performance of ceria doped Cr ₃ C ₂ -NiCr coated superalloys under actual medical waste atmosphere	2nd International Conference on Recent Advances in Materials & Manufacturing Technologies. Jan 2020	Lalit Ahuja, Deepa Mudgal
16.	Experimental analysis and characterization of SiC and RE oxides reinforced Al-6063 alloy based hybrid composites	40th International MATADOR Conference on Advanced Manufacturing Hangzhou, China. 8-10 July 2019	V.K. Sharma, V. Kumar, R.S Joshi
17.	Design and modeling of a self dispersing twisted pipe to mitigate settling in coal water suspension	Proceedings of 3rd International Conference and Exhibition on Powder, Granules and Bulk Solids : Innovations and applications. February 27-28, 2020	Harmanpreet Singh, Kumar S., Mohapatra, S. K.

18.	Rotational magnetorheological honing (R-MRH) process for improving operational function of cylindrical mold	40th International MATADOR Conference on Advanced Manufacturing, Hangzhou, China, 8-10 July 2019.	Sunil Kumar Paswan, Anant Kumar Singh
19.	Nanofinishing of hemispherical blind hole surface with a newly designed magnetorheological finishing tool	40th International MATADOR Conference on Advanced Manufacturing, Hangzhou, China, 8-10 July 2019.	Ankit Aggarwal, Anant Kumar Singh
20.	Effect of direction of rotations on process performance of a rectangular-rotating core magnetorheological finishing process	40th International MATADOR Conference on Advanced Manufacturing, Hangzhou, China, 8-10 July 2019.	Manpreet Singh, Anant Kumar Singh
21.	Nano-finishing of Internal Surface of Power Steering Housing Cylinder Using Rotational Magnetorheological Honing Process.	Advances in Micro and Nano Manufacturing and Surface Engineering 2019. Springer, Singapore. December 2019	Paswan SK, Singh AK.
22.	A Novel Magnetorheological Grinding Process for Finishing the Internal Cylindrical Surfaces.	Advances in Unconventional Machining and Composites 2020. Springer, Singapore. November 2019	Aggarwal A, Singh AK.
23.	Study of a Newly Developed Magnetorheological Honing Process.	Advances in Unconventional Machining and Composites 2020. Springer, Singapore. November 2019	Bedi TS, Singh AK. Parametric

24.	Nanofinishing of External Cylindrical Surface of C60 Steel Using Rotating Core-Based Magnetorheological Finishing Process.	Advances in Unconventional Machining and Composites 2020. Springer, Singapore. January 2020	Singh M, Singh A, Singh AK.
25.	ARX/ARMAX Modeling and Fractional Order Control of Surface Roughness in Turning Nano-Composites.	In2019 International Conference on Mechatronics, Robotics and Systems Engineering (MoRSE) 2019. IEEE. 4-6 Dec. 2019	Sekhar R, Singh TP, Shah P.
26.	Influence of nanoclay on the thermophysical properties and lubricity characteristics of mineral oil	International Conference on Nanotechnology: Ideas, Innovations & Initiatives-2017. August 2019	Singh H, Bhowmick H.