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Publications

Year of Publication	Title
2020	T. Mohanraj, Shankar, S., Rajasekar, R., Sakthivel, N. R., and Pramanik, A., "Tool condition monitoring techniques in milling process — a review", Journal of Materials Research and Technology, vol. 9, pp. 1032 - 1042, 2020. [Abstract]
2020	T. Mohanraj, Suganeswaran, K., Parameshwaran, R., and Meenakshipriya, B., "Process parameter optimization for the magnetic abrasive finishing of SS310s steel", Materials Testing, 2020. [Abstract]
2020	T. Mohanraj, M, A., K., V. K. C., and Vijay, M., "Evaluation of Shoulder Pain Among the Workers Involved in Ironing Process Using Surface Electromyography", Journal of Medical Imaging and Health Informatics, vol. 10, 1 vol., 2020. [Abstract]
2019	T. Mohanraj and M, D. Kumar, "The process parameter optimization for grey cast iron in turning process using response surface methodology", International Journal of Mechanical and Production Engineering Research and Development, vol. 9, pp. 997-1006, 2019.
2019	A. J., , T. Mohanraj, and , "The effect of bio-cutting fluids on surface roughness during end milling of A359 aluminium alloy", International Journal of Mechanical and Production Engineering Research and Development, vol. 9, pp. 987-996, 2019.
2019	T. Mohanraj, SK, T., and Shankar, S., "Tool wear prediction in hard turning of EN8 steel using cutting force and surface roughness with artificial neural network", : Journal of Mechanical Engineering Science, 2019. [Abstract]
2019	P. M. Arunkumar, T. Mohanraj, Ananthi, K., Abbhimanneu, S. J., Aravindh, R., Praveen, T. A., Balaji, S., Dinesh, P. K., and P. Joseph, L., "Optimization of milling parameters using vegetable oil by measuring vibration signal", International Journal of Innovative Technology and Exploring Engineering, vol. 8, pp. 706-711, 2019. [Abstract]
2019	T. Mohanraj, Tamilarasi, T., Rajasekar, R., Saminathan, K., and Ravichandran, K., "Experimental Investigation on the Influence of Carbon-based Nanoparticle Coating on Heat Transfer Characteristics of the Microprocessor", Journal of Composite Materials , 2019.

2019	A. SHANMUGAM, KRISHNAMURTHY, K., and T. Mohanraj, "Experimental study of surface roughness and taper angle in abrasive water jet machining of 7075 Aluminium composite using Response Surface Methodology", Surface Review and Letters (Accepted), p. 1950112, 2019. [Abstract]
2019	S. Shankar, T. Mohanraj, and Pramanik, A., "Tool Condition Monitoring While Using Vegetable Based Cutting Fluids During Milling of Inconel 625", Journal of Advanced Manufacturing Systems, 2019.
2019	T. Mohanraj, Shankar, S., Rajasekar, R., Deivasigamani, R., and Arunkumar, P. M., "Tool Condition Monitoring in the Milling Process with Vegetable based Cutting Fluids using Vibration Signatures", Materials Testing, vol. 61, no. 3, pp. 282-288, 2019. [Abstract]
2019	S. Shankar, T. Mohanraj, and Rajasekar, R., "Prediction of Cutting Tool Wear during Milling Process using Artificial Intelligence Techniques", International Journal of Computer Integrated Manufacturing, vol. 32, pp. 174-182, 2019. [Abstract]
2017	T. Mohanraj and Shankar, S., "Experimental Investigation and Process Parameter Optimization in Milling of 7075 – T6 Hybrid Aluminium Metal Matrix Composite using esponse Surface methodology", Journal of the Balkan Tribological Association, vol. 23, pp. 124–138, 2017.
2017	T. Mohanraj, Shankar, S., and Ponappa, K., "Influence of Vegetable Based Cutting Fluids on Cutting Force and Vibration Signature During Milling of Aluminium Metal Matrix Composites", Jurnal Tribologi, vol. 12, pp. 1-17, 2017. [Abstract]
2016	T. Mohanraj, Shankar, S., and Thangarasu, S. K., "Multi-Response Milling Process Optimization using the Taguchi Method Coupled to Grey Relational Analysis", Materials Testing, vol. 58, no. 5, pp. 462-470, 2016. [Abstract]
2015	T. Mohanraj, Saravanan, B., and Ameen, M. Al, "Optimization of Process Parameter for Surface Roughness in Milling Process using Response Surface Methodology", IOSRD International Journal of Engineering, vol. 2, no. 2, pp. 11-16, 2015.
2015	T. Mohanraj, S., S., Thangarasu, S. K., and Pravien, D. S., "Prediction of Cutting Force in Turning Process: An Experimental and Fuzzy Approach", Journal of Intelligent & Fuzzy Systems, vol. 28, no. 4, pp. 1785-1793, 2015. [Abstract]
2014	T. Mohanraj, Arunkumar, S., Raghunath, M., and Anand, M., "Mobile Robot Path Planning using Ant Colony Optimization", International Journal of Research in Engineering and Technology, vol. 3, no. 11, pp. 1-16, 2014. [Abstract]
2009	S. C. M. Amie and T. Mohanraj, "Automation and Emerging Technology Development of 2d Seed Sowing Robo", Journal of Agricultural Science (Toronto), vol. 1, no. 1, pp. 33-52, 2009. [Abstract]

2017	T. Mohanraj, Sathishranganathan, C., Rajasekar, R., Saravanan, N., and Maheshkumar, K. V., "Investigation on Mechanical Properties of Aluminium 6063 with Basalt Powder", International Conference on Nanotechnology:Ideas, Innovations and initiatives - 2017. IIT Roorkee, 2017.
2017	S. .Shankar and T. Mohanraj, "Experimental Analysis and Process Parameter Optimization in Milling of Inconel 625 using Response Surface Methodology", International Conference on Manufacturing Technology and Simulation 2017. IIT Madras, 2017.
2016	T. Mohanraj, .Shankar, S., .Rajasekar, R., and .M.Arunkumar, P., "Optimization of Process Parameters using Taguchi's DOE for Cutting Force in Milling of 7075-T6 Composite Aluminium Alloy", International conference on Sustainable Materials design and applications ICSMDA 2016. Kongu Engineering College, 2016.
2016	T. Mohanraj, .Saravanan, B., M. Asfar, M., and .G.Sastikumar, T., "Automatic Pineapple Peeler", International Conference on Advanced Engineering and technology for sustainable development, ICAETSD 2016. 2016.
2016	T. Mohanraj, .Shankar, S., .Saravanan, B., and .G.Sastikumar, T., "Design, Development and Testing of a Strain Gauge Based Milling Dynamometer for Measurement of Cutting Force", International Conference on Materials, Design and Manufacturing Process, ICMDM '16. Anna University, Chennai , 2016.
2016	T. Mohanraj, .Arunkumar, S., ameen, J. Mal, Kumar, J. A., and .Janarthanan, G., "Intelligent Motorisd Shopping Droit", International Conference on Advances in Materials and Manufacturing - INTCOMM 2016. Hindusthan College of Engineering and Technology, Coimbatore, 2016.
2016	T. Mohanraj, Rajasekar, D. R., and .M.Arunkumar, P., "Influence of Bio-oils as Cutting Fluid in Tool Wear Prediction for Milling Operation", International Conference on Advances in Materials and Manufacturing - INTCOMM 2016. Hindusthan College of Engineering and Technology, Coimbatore, 2016.
2016	T. Mohanraj and .Saravanan, B., "Throughput Time Reduction in OHT (Off Highway Trucks) Main Assembly line Through Fixture and Modularity", International Conference on Applied Mathematical Models. PSG College of Technology, Coimbatore, 2016.
2015	T. Mohanraj and .Saravanan, B., "Automatic Pesticide Spraying Machine", International Conference on Mathematical Computer Engineering ICMCE 2015. VIT University, Chennai, 2015.
2015	T. Mohanraj and Saravanan, B., "Design and Fabrication of Automatic Dhoop Making Machine", International Conference on Modern, Intelligent and Green Manufacturing. Erode Sengundhar Engineering College, Erode, 2015.
2015	T. Mohanraj and S.Shankar, 4., "Tool Condition Monitoring in Milling using Sensor Fusion Technique", Malaysian International Tribology Conference. 2015.
2014	T. Mohanraj, .Shankar, S., and .Eswararaj, S., "Optimization of Process Parameters for Surface Roughness in Milling based on Response Surface Methodology", International Conference on Advances in Mechanical and Mechatronics Engineering. Sri Krishna College of Engineering and Technology Coimbatore, 2014.

2014	T. Mohanraj, .MuthuKrishnan, A., C. Kumar, N., and Prasannababu, R., “Thermo Mechanical Analysis of Single Point Cutting Tool using Fem Approach”, International Conference on Advances in Mechanical and Mechatronics Engineering. Sri Krishna College of Engineering and Technology Coimbatore, 2014.
2014	T. Mohanraj, .Anandakumar, P., .K.Boopathi, M., and .Elango, B., “Some Studies on Mobile Robot Path Planning – A Review”, International Conference on Advances in Mechanical and Mechatronics Engineering. Sri Krishna College of Engineering and Technology Coimbatore, 2014.