INTERNAL EXAMINER

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INTERNATIONAL JOURNALS:

1. **Selvarajan, L.,** C. Sathiya Narayanan, and R. JeyaPaul. "Optimization of EDM parameters on machining Si3N4–TiN composite for improving circularity, cylindricity, and perpendicularity." *Materials and Manufacturing Processes* 31, no. 4 (2016): 405-412. (Annexure 1 - SCI-I.F-2.274).
2. **Selvarajan, L**., C. Sathiya Narayanan, and R. Jeyapaul. "Optimization of process parameters to improve form and orientation tolerances in EDM of MoSi2-SiC composites."*Materials and Manufacturing Processes* 30, no. 8 (2015): 954-960. (Annexure 1 - SCI-I.F-2.274).
3. **Selvarajan, L**., C. Sathiya Narayanan, R. Jeyapaul, and M. Manohar. "Optimization of EDM process parameters in machining Si3N4–TiN conductive ceramic composites to improve form and orientation tolerances." *Measurement* 92 (2016): 114-129. (Annexure1 -SCI Impact Factor: 2.359).
4. **Selvarajan, L.,** M. Manohar, and P. Dhinakaran. "Modelling and experimental investigation of process parameters in EDM of Si 3 N 4-TiN composites using GRA- RSM." *Journal of Mechanical Science and Technology* 31, no. 1 (2017): 111-122. (Annexure 1 -SCI Impact Factor: 1.128).
5. **Selvarajan, L.,** C. Sathiya Narayanan, and R. Jeyapaul. "Optimization of EDM Hole Drilling Parameters in Machining of MoSi 2-SiC Intermetallic/Composites for Improving Geometrical Tolerances." *Journal of Advanced Manufacturing Systems* 14, no. 04 (2015):259-272.
6. **Selvarajan, L.,** J. Rajavel, V. Prabakaran, B. Sivakumar, and G. Jeeva. "A review paper on EDM parameter of composite material and industrial demand

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7. **Selvarajan, L**., M. Manohar, J. Amos Robert Jayachandran, P. Mouri, and P. Selvakumar. "A review on less tool wear rate and improving surface quality of conductive ceramic composites by spark EDM." *Materials Today: Proceedings* 5, no. 2 (2018): 5774-5782.
8. **Selvarajan, L.,** P. Mouri, and R. Ramesh Raja. "Experimental investigation of edm parameters on machining Si3N4-TiN conductive ceramic composite using hallow tube electrode for improving geometrical accuracy." *Materials Today: Proceedings* 5, no. 2 (2018): 8080-8088.
9. **Selvarajan, L.**, D. Katherasan, B. Srivijai, R. Rajavel, and M. Ramamoorthi. "Experimental Analysis of EN 19 Alloy Material on EDM for Improving Geometrical Errors Using Copper Pentagon Shaped Electrode." *Materials Today: Proceedings* 5, no. 2(2018): 4508-4514.
10. **Selvarajan, L**., C. Sathiya Narayanan, and R. Jeyapaul. "Optimization of Machining Characteristics in EDM of Si3N4-TiN Composites by Taguchi Grey Relational

    Analysis." In*Applied Mechanics and Materials*, vol. 592, pp. 600-604. Trans Tech Publications, 2014.

11. Srinivasan, V. P., P. K. Palani, and **L. Selvarajan**. "Experimental investigation on electrical discharge machining of ceramic composites (Si3N4-TiN) using RSM." *International Journal of Computational Materials Science and Surface Engineering* 7, no. 2 (2018): 104-115.
12. **Selvarajan, L.,** C. Sathiya Narayanan, and R. Jeyapaul. "Multi-objective optimization onElectric Discharge Machining using by Grey Relational analysis." In *Applied Mechanics and Materials*, vol. 592, pp. 550-554. Trans Tech Publications, 2014.
13. **Selvarajan, L.,** R. Rajavel, P Gopi, M Gokulkumar and N Kasthuri. "Investigation on EDM of SS316 Alloy material using copper electrode for improving MRR and TWR" *Journal of manufacturing Engineering*, vol.13, pp.142-147,2018.
14. **Selvarajan, L.,** K Anbarasan, R Kumaresh Alagu Ram, S Lakshmikandhan, L K Nantha Kumar and N Kasthuri. "Experimental Investigation on EDM for SS307 material to improve geometrical error using 3D shaped copper electrode" *Advanced materials manufacturing & characterization*, vol. 8, (2018).

15. **Selvarajan, L.,** R. Rajavel, F. Leo Princely, R. Aravind and T.P. Habeeb Masood. "Investigation on Rotary electrical discharge machining (EDM) of EN-25 material using copper electrode for improving geometrical errors" Springer Nature Singapore (2019), Lecture Notes on Multidisciplinary Industrial Engineering, https://doi.org/10.1007/978- 981-32-9072-3_52.
16. **Selvarajan, L**., R. Sasikumar, Dhanesh G Mohan, P. Naveen Kumar, and V. Muralidharan. "Investigations on electrochemical machining (ECM) of al7075 material using copper electrode for improving geometrical tolerance." *Materials Today: Proceedings*, https://doi.org/10.1016/j.matpr.2019.12.188.
17. **Selvarajan, L**., R. Rajavel, B Prakash, Dhanesh G Mohan, and S. Gopi. "Investigation on spark electrical discharge machining of Si3N4 based advanced conductive ceramic composites" *Materials Today: Proceedings*, https://doi.org/10.1016/j.matpr.2019.09.090.
18. **Selvarajan, L**., N. Senthil Kumar, R. Raja, R. Sasikumar, and V. Muralidharan "Effects of process parameter on performance measures in electrical discharge machining using copper and brass electrodes" *Materials Today Proceedings*, https://doi.org/10.1016/j.matpr.2020.01.551.
19. Sasikumar. A., S. Gopi, M. Sathish Kumar, and **L. Selvarajan** "Predicting Tensile Strength of Filler Added Friction Stir Welded AA6082 and AA5052 Dissimilar Joint" *Materials Today Proceedings,* https://doi.org/10.1016/j.matpr.2020.01.258.
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PRESENTATONS IN INTERNATIONAL CONFERENCES:

1. **Selvarajan, L., C. Sathiya Narayanan** (2013) Current Research Trends in Electrical Discharge Machining (EDM) of Conductive Ceramic Composites - A Review.Proceedings of the International Conference on Precision, Meso, Micro and Nano Engineering, COPEN-08, 13-15 Dec -2013, NITC, India.
2. **Selvarajan.L., C. Sathiya Narayanan,** and **Ch. Ratnasekhar** (2013) A Review on Electrode Wear and Surface Quality of Electrical Discharge Machining (EDM) of Conductive Ceramic Composites. Proceedings of the International Conference on

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4. **Selvarajan, L., C. Sathiya Narayanan,** and **P. Ramesh** (2014) Investigation of Mechanical and Machinability Properties of Aluminium MMC by using EDM for Automobile Components. XXVIII National Convention of Mechanical Engineers and National Seminar on Emerging Technologies in Product Development for Safe andSustainable Mobility, 3-5 Sep-2012, PSG CT, India.
5. **Selvarajan, L.** (2011) Wire Electrical Discharge Machining of Insulating Ceramics. International Conference on Design and Advances in Mechanical Engineering, ICDAAME'11, 16-17 Dec-2011, SKP Engineering College, India.
6. **Selvarajan, L.** (2011) Study on Electrical Discharge Machining of Conductive Ceramics. International Conference on Design and Advances in Mechanical Engineering, ICDAAME'11, 16-17 Dec-2011, SKP Engineering College, India.
7. **Selvarajan, L**., R. Aravind, S. Sankar, R. Dineshkumar and P. Ramesh (2016) Experimental analysis of EN 19 alloy material on EDM for improving geometrical errors using copper pentagon shaped electrode. International Conference of Young researchers on Advanced materials- IUMRS-ICRYAM, Dec-2016, IISc-Bangalore, India.
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11. **Selvarajan, L.,** J. Rajavel, V. Prabakaran, B. Sivakumar, and G. Jeeva. "A Review paper on EDM parameter of Composite Material and Industrial Demand and Material Machining" *5th International Conference* on *Materials Processing and Characterization*-GRIET, Hyderabad-12-13 March *2016.*
12. **Selvarajan, L**., R. Sasikumar, N. Senthil Kumar, Prabu Kolochi, and P. Naveen Kumar "Effect of EDM Parameters on Material Removal Rate, Tool Wear Rate and Geometrical Errors of Aluminium Material" Materials Today Proceedings (accepted for publication): International Mechanical Engineering Congress-2019 NIT-Trichy.
13. Rajavel. R., **L. Selvarajan**, G. Rajkumar, R. Sasikumar, and A. Rakshna "Investigation on Machinability of Al2024 & 7.5% Si3N4 Metal Matrix Composite with PMEDM using Taguchi based GRA" Materials Today Proceedings (accepted for publication): International Mechanical Engineering Congress-2019 NIT-Trichy.

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1. **Selvarajan, L**. (2012) Formability Analysis of Al-Based Alloy by Using FEM. National Conference Materials Engineering, CMET'12, 4-5 Apr-2012, PSG CT, India.
2. **Selvarajan, L**. (2012) Product Life Cycle Management. National Conference on Manufacturing Innovation Strategies and Appealing Advancements, MISSA'12, 12 Apr- 2012, PSG CT, India.
3. **Selvarajan, L.** (2011) PLM Application Configuration-Setting up Clustering Environment in Wind Chill – PDM Link in Oil and Gas Domain. National Conference on Product Design and Manufacturing, NCPDM'11, 29 Apr-2011, PSG CT, India