Dr. Dinakaran D – Publications (2016-2020)

1. Muthuswamy, P. and Dinakaran, D., 2020. Evaluation of mechanical and metallurgical properties of cryo-treated tungsten carbide with 25% cobalt. Materials Today: Proceedings.

2. Prabhu, L., Kumar, S.S., Dinakaran, D. and Jawahar, R., 2020. Improvement of chatter stability in boring operations with semi active magneto-rheological fluid damper. *Materials Today: Proceedings*.

3. Jose, J., Dinakaran, D., Ramya, M.M., Kuppan Chetty, R.M., Tokhi, M.O. and Sattar, T.P., 2020. Investigations on the effect of wall thickness on magnetic adhesion for wall climbing robots. *International Journal of Robotics and Automation*.

4. Mary, J.S., Balaji, M.S., Krishnakumari, A., Nakandhrakumar, R.S. and Dinakaran, D., 2019. Monitoring of drill runout using least square support vector machine classifier. *Measurement*, *146*, pp.24-34.

5. Padmakumar, M., Guruprasath, J. and Dinakaran, D., 2019. Influence of cryo-processing on properties of tungsten carbide with low, medium and high cobalt content. *Materials Research Express*, *6*(10), p.106597.

6. Padmakumar, M., Guruprasath, J. and Dinakaran, D., 2019. Influence of cryo-processing on properties of tungsten carbide with low, medium and high cobalt content. *Materials Research Express*, *6*(10), p.106597.

7. Nakandhrakumar, R.S., Dinakaran, D., Pattabiraman, J. and Gopal, M., 2019. Tool flank wear monitoring using torsional–axial vibrations in drilling. *Production Engineering*, *13*(1), pp.107-118.

8. Nakandhrakumar, R.S., Dinakaran, D., Pikton, D. and Patabiraman, J., 2019. Mathematical models of flank wear using vibration amplitude ratio in drilling. *FME Transactions*, *47*(3), pp.430-436.

9. Susai, M.J., Sai, B. and Dinakaran, D., 2019. Prediction and geometric adaptive control of surface roughness in drilling process. *FME Transactions*, *47*(3), pp.424-429.

10. Padmakumar, M., Guruprasath, J., Achuthan, P. and Dinakaran, D., 2018. Investigation of phase structure of cobalt and its effect in WC–Co cemented carbides before and after deep cryogenic treatment. *International Journal of Refractory Metals and Hard Materials*, *74*, pp.87-92.

11. Sellamuthu, P., Samuel, D.H., Dinakaran, D., Premkumar, V.P., Li, Z. and Seetharaman, S., 2018. Effect of nickel content and austempering temperature on microstructure and mechanical properties of austempered ductile iron (ADI), IOP Conf. *Ser. Mater. Sci. Eng*, *383*(1).

12. Nandakumar, A. and Dinakaran, D., 2018. Effect of Inclusion of Carbon Nano Tubes Nano Particles with Al–SiC Metal Matrix Composite on Hardness. *Advanced Science, Engineering and Medicine*, *10*(3-4), pp.485-487.

13. Jose, J.A.I.S.E., Dinakaran, D., Ramya, M.M. and Harris, D.G., 2018. A Survey on Magnetic Wall-Climbing Robots for Inspection. *Transst. J*, *8*, pp.59-68.

14. Kanthavelkumaran, N., 2018. Predictions of Tool Wear in Hard Turning of AISI4140 Steel through Artificial Neural Network, Fuzzy Logic and Regression Models. *International Journal of Engineering*, *31*(1), pp.32-37.

15. Padmakumar, M., Dinakaran, D. and Guruprasath, J., 2018. Tribological behaviour of cryogenically treated WC-9Co cemented carbide. *Materials Today: Proceedings*, *5*(2), pp.7797-7807.

16. Sellamuthu, P., Samuel, D.G., Dinakaran, D., Premkumar, V.P., Li, Z. and Seetharaman, S., 2018. Austempered ductile iron (ADI): influence of austempering temperature on microstructure, mechanical and wear properties and energy consumption. *Metals*, *8*(1), p.53.

17. Padmakumar, M., Dinakaran, D. and Guruprasath, J., 2017. Characterization of cryogenically treated cemented carbide. *Integrated Ferroelectrics*, *185*(1), pp.65-72.

18. Rajeev, D., Dinakaran, D. and Singh, S.C.E., 2017. Artificial neural network based tool wear estimation on dry hard turning processes of AISI4140 steel using coated carbide tool. *Bulletin of the Polish Academy of Sciences: Technical Sciences*, pp.553-559.

19. Padmakumar, M. and Dinakaran, D., 2017. Performance evaluation of cryogenically treated and tempered tungsten carbide insert on face milling of grey cast iron. *International Journal of Machining and Machinability of Materials*, *19*(2), pp.180-191.

20. Mary, J.S., Banu, U.S., Dinakaran, D. and Nakandhrakumar, R.S., 2017. Adaptive control by multi-objective optimisation for drilling process with fuzzy inference system and neural predictive controller. *Insight-Non-Destructive Testing and Condition Monitoring*, *59*(1), pp.38-44.

21. Nakandhrakumar, R.S., Dinakaran, D., Gopal, M. and Pattabiraman, J., 2016. A novel normalisation procedure for the sensor positioning problem in vibration monitoring of drilling using artificial neural networks. *Insight-Non-Destructive Testing and Condition Monitoring*, *58*(10), pp.556-563.

22. Ramesh, B., Elayaperumal, A., Satishkumar, S., Kumar, A., Jayakumar, T. and Dinakaran, D., 2016. Influence of cooling on the performance of the drilling process of glass fibre reinforced epoxy composites. *Archives of Civil and Mechanical Engineering*, *16*, pp.135-146.

23. Ramesh, B., Elayaperumal, A., Satishkumar, S., Kumar, A., Jayakumar, T. and Dinakaran, D., 2016. Influence of cooling on the performance of the drilling process of glass fibre reinforced epoxy composites. *Archives of Civil and Mechanical Engineering*, *16*, pp.135-146.

24. Rajeev, D., Dinakaran, D., Lead, G. and Muthuraman, S., 2016. Prediction of roughness in hard turning of AISI 4140 steel through artifical neural network and regression models. *Int. J. Mech. Eng. Technol*, *7*(5), pp.200-208.

25. Gajendran, G., Dinakaran, D., Mohankumar, S., Karthikeyan, G. and Muniappan, R., 2016. Integrated pest management for onion in India. In *Integrated Pest Management of Tropical Vegetable Crops* (pp. 179-207). Springer, Dordrecht.