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B.E. (MECHANICAL ENGINEERING) – AEC GUWAHATI (GAUHATI UNIVERSITY), 2009

EXPERIENCE: JANUARY 2018- PRESENT: ASSISTANT PROFESSOR, AEC GUWAHATI
NOVEMBER 2009- JULY 2012: ENGINEER-PLANT, GAMMON INDIA LIMITED

RESEARCH INTERESTS: WIRE-EDM, FRICTION STIR WELDING, OPTIMIZATION AND SOFT COMPUTING

PUBLICATIONS:

Journals

1. Piyush Singh, Pankaj Biswas, Sachin D. Kore, Influence of Traverse Speed in Self-Reacting FSW of AA6061-T6, 2018, Journal of Ship Production and Design, Society of Naval Architects and Marine Engineers (SNAME), DOI: <https://doi.org/10.5957/JSPD.160047>
2. Piyush Singh, Pankaj Biswas, Sachin D. Kore, A three-dimensional fully coupled thermo-mechanical model for Self-reacting Friction Stir Welding of Aluminium AA6061 sheets, 2016, *J. Phys.: Conf. Ser.*, **759**, pp. 012047

Book chapter

1. Singh P., Biswas P., Kore S.D. (2018) Finite Element Method and Experimental Study of Self-reacting Friction Stir Welding of Aluminium Alloy AA6061-T6. In: Dixit U., Kant R. (eds) Simulations for Design and Manufacturing. Lecture Notes on Multidisciplinary Industrial Engineering. Springer, Singapore

Conference proceedings

1. A. Tiwari, P. Singh, P. Biswas, S.D. Kore, Friction Stir Welding of AISI 1006 Low Carbon Steel, INCOM18: Proceedings of the 1st International Conference on Mechanical Engineering Jadavpur University Kolkata India January 4 – 6, 2018 Paper No. INCOM18-211, pp. 530-533
2. Avinish Tiwari, Piyush Singh, Pankaj Biswas and S D Kore, Effect of Traverse Speed on Friction Stir Welding of AISI 1006 Low Carbon Steel, International Congress 2017 of the International Institute of Welding (IIW-IC 2017), 7-9 December 2017, Chennai, Paper no. C086, pp. 340-345
3. Piyush Singh, Pankaj Biswas, Sachin D Kore, Finite Element and Experimental Study of Self-Reacting Friction Stir Welding of Aluminium Alloy AA6061-T6, 6th International & 27 th All India

Manufacturing Technology, Design and Research Conference, 2016, Excel India, Vol. ISBN: 978-93-86256-27-0, pp 967-971

4. Piyush Singh, Pankaj Biswas, Sachin D. Kore, A three-dimensional fully coupled thermo-mechanical model for Self-reacting Friction Stir Welding of Aluminium AA6061 sheets, XXVII IUPAP Conference on Computational Physics (CCP2015) 2–5 December 2015, Guwahati, India
5. Piyush Singh, P Das, S Hebram, A Mandal, A K Das, A R Dixit, N K Singh, An Approach to Optimize WEDM Process Parameters for Machining SS304 Steel by the Hybrid method of RSM and GA, 2nd National Conference on Mining Equipment: New Technologies, Challenges and Applications (MENTCA), 9-10 Oct. 2015, ISM Dhanbad, pp. 85-89
6. Piyush Singh, Amitava Mandal, A.R. Dixit and A.K. Das, Experimental techniques in optimizing process parameters of WEDM process: A review, Proceedings of National Conference on Recent Advancements in Mechanical Engineering (NCRAME), 8-9 Nov 2013, NERIST, Itanagar, Arunachal Pradesh, ISBN: 978-93-82880-71-4.