
Author's Biography

Samik Dutta did his Bachelor of Engineering in Mechanical Engineering from Regional Engineering College, Durgapur, West Bengal in 2002. He obtained his Master of Technology degree with Machine Design and Production Engineering specialization from National Institute of Technology, Durgapur in 2004. After completing his M. Tech, he served as a lecturer in MCKV Institute of Engineering, Liluah, West Bengal for two years. In 2006, he joined in CSIR-Central Mechanical Engineering Research Institute Durgapur as a scientist. In 2009, he joined Indian Institute of Technology Kharagpur as a research scholar to pursue doctoral research in the field of *tool condition monitoring using digital image processing*. He continued his Ph. D research as well as his research related to CSIR, simultaneously. Following is the list of international journal papers and book chapter from his present research.

Published

International Journal papers

Dutta, S., Datta, A., Chakladar, N.D., Pal, S.K., Mukhopadhyay, S. and Sen, R., Detection of tool condition from the turned surface images using an accurate grey level co-occurrence technique, *Precision Engineering*, 2012, **36**, 458–466

Dutta, S., Kanwat, A., Pal, S.K. and Sen, R., Correlation study of tool flank wear with machined surface texture in end milling, *Measurement*, 2013, **46**, 4249–4260

Dutta, S., Pal, S.K., Mukhopadhyay, S., Sen, R., Application of digital image processing in tool condition monitoring: a review, *CIRP Journal of Manufacturing Science and Technology*, 2013, **6**, 212–232

Datta, A., **Dutta, S.**, Pal, S.K. and Sen, R., Progressive cutting tool wear detection from machined surface images using Voronoi tessellation method, *Journal of Materials Processing Technology*, 2013, 213, 2339–2349

Datta, A., **Dutta, S.**, Pal, S.K., Sen, R. and Mukhopadhyay, S., Texture analysis of turned surface images using grey level co-occurrence technique, *Advanced Materials Research*, 2012, 365, 38–43

Book chapter

Dutta, S., Pal, S.K. and Sen, R., Digital image processing in machining, in: Davim, J.P. (Ed.), *Modern Mechanical Engineering - Research, Development and Education*, 2014, pp. 369–412 (*Springer-Verlag Ltd., Berlin*)

Under Review

International Journal papers

Dutta S, Pal S.K., Sen R., on-machine tool prediction of flank wear from machined surface images using texture analysis and support vector regression, *Precision Engineering* (2nd review going on)

Bhat N.N., **Dutta S.**, Vashisth T., Pal S., Pal S.K., Sen R., tool condition monitoring by svm classification of machined surface images in turning, *International Journal of Advanced Manufacturing Technology* (sent after minor revision)

Dutta S, Pal S.K., Sen R., Tool condition monitoring in turning by applying machine vision, *Transactions of ASME-Journal of Manufacturing Science and Engineering* (under review)

Dutta S, Pal S.K., Sen R., Progressive tool flank wear monitoring by applying discrete wavelet transform on turned surface images, *Journal of materials processing technology* (under review)