



BIBLIOGRAPHY

- Ajmera, J., McCowan, I. and Boulard, H. (2003) Speech and music segmentation using entropy and dynamism in a hmm classification framework, *Speech Communication*, 40, 351–363.
- Allen, R. and Shi, H. (2001) Tool wear monitoring using a combination of cutting force and vibration signals, *International Journal of COMADEM*, 4 (1), 26–32.
- Atlas, L., Ostendorf, M. and Bernard, G. D. (2000) Hidden Markov models for monitoring machining tool wear, *Proceedings of the IEEE*, 0-7803-6293-4/00 3887–3890.
- Balazinski, M., Czogala, E., Jemielniak, K. and Leski, J. (2002) Tool condition monitoring using artificial intelligence methods, *Engineering Applications of Artificial Intelligence*, 15, 73–80.
- Bengio, Y. (1999) Markovian models for sequential data, *Neural computing surveys*, 2, 129–162.
- Bicego, M., Murino, V. and Figueiredo, M. A. T. (2003) A sequential pruning strategy for the selection of the number of states in hidden Markov models, *Pattern Recognition Letters*, 24, 1395–1407.
- Blimes, J. January (2002) What hmms can do, *UWEE Technical Report nr: UWEETR-2002-0003*. URL: <http://www/ee.washington.edu>.
- Bunks, C., McCarthy, D. and Al-Ani, T. (2000) Condition-based maintenance of machines using hidden Markov models, *Mechanical Systems and Signal Processing*, 14 (4), 597–612.
- Byrne, G., Dornfeld, D., Ketteler, I. I. G., Konig, W. and Teti, R. (1995) Tool condition monitoring – the status of research and industrial application, *Annals of the CIRP*, 44 541–567.



- Cho, D.-W., Lee, S. J. and Chu, C. N. (1999) The state of machining process monitoring research in Korea, *International Journal of Machine Tools and Manufacture*, 39, 1697–1715.
- Choudhury, S. K. and Kishore, K. K. (2000) Tool wear measurement in turning using force ratio, *International journal of Machine Tools and Manufacture*, 40, 899–909.
- Dimla, D. E. (2000) Sensor signals for tool-wear monitoring in metal cutting operations - a review of methods, *International Journal of Machine Tools and Manufacture*, 40, 1073–1098.
- Du, R. (1999) Signal understanding and tool condition monitoring, *Engineering Applications of Artificial Intelligence*, 12, 585–597.
- Elliott, R., Aggoun, L. and Moore, J. (1995) Hidden Markov models: Estimation and control, *Applications of Mathematics*, Springer-Verlag, 1995 ISBN 0387943641.
- Ertunc, H. M., Loparo, K. A. and Ocak, H. (2001) Tool wear condition monitoring in drilling operations using hidden Markov models (hmms), *International Journal of Machine Tools and Manufacture*, 41, 1363–1384.
- Fugate, M. L., Sohn, H. and Farrar, C. R. (2000) Unsupervised learning methods for vibration-based damage detection, *Proceedings of the International Modal Analysis Conference*, 18, 652–659.
- Ge, M., Du, R. and Xu, Y. (2003) Hidden Markov model based fault diagnosis for stamping processes, *Mechanical Systems and Signal Processing*. This article was still in press at the time when this document was being compiled
- Ghasempour, A., Jeswiet, J. and Moore, T. N. (1999) Real time implementation of on-line tool condition monitoring in turning, *International Journal of Machine Tools and Manufacture*, (39), 1883–1902.
- Håkansson, L., Brandt, A., Lägo, T. L. and Cleasson, I. (2003) Modal analysis and operating deflection shapes of a boring bar, in *Proceedings of the International Modal Analysis Conference*, 21.
- Jiang, C. Y., Zhang, Y. Z. and Xu, H. J. (1987) In-process monitoring of tool wear stage by the frequency band-energy method, *Annals of the CIRP*, 36 (1), 45–48.
- Kwon, K.-C. and Kim, J.-H. (1999) Accident identification in nuclear power plants using hidden Markov models, *Engineering Applications of Artificial Intelligence*, 12, 491–501.



- Lägo, T. L., Olsson, S., Håkansson, L. and Cleasson, I. (2002) Design of an efficient chatter control system for turning and boring applications, in *Proceedings of the International Modal Analysis Conference, 20*, 4–
- Lee, J. H., Kim, D. E. and Lee, S. J. (1998) Statistical analysis of cutting force ratios for flank-wear monitoring, *Journal of Materials Processing Technology, 78*, 104–114.
- Lee, J. M., Kim, S.-J., Hwang, Y. and Song, C.-S. Pattern recognition of mechanical fault signal using hidden Markov model, in *International Congress on Sound and Vibration, 10*, 4725–4730 Stockholm, Sweden July (2003).
- Leem, C. S. and Dornfeld, D. A. (1996) Design and implementation of sensor-based tool-wear monitoring systems, *Mechanical Systems and Signal Processing, 10* (4), 439–458.
- Li, C.-J. and Ulsoy, A. G. (1999) High-precision measurement of tool-tip displacement using strain gauges in precision flexible line boring, *Mechanical Systems and Signal Processing, 13* (4), 531–546.
- Li, S. and Elbestawi, M. A. (1996) Fuzzy clustering for automated tool condition monitoring in machining, *Mechanical Systems and Signal Processing, 10* (5), 533–550.
- Lim, G. H. (1993) Tool-wear monitoring in machine turning, *Journal of Materials Processing Technology, 51*, 25–36.
- Miller, I. and Miller, M. (1999) John E Freund's Mathematical Statistics, *Prentice Hall*, 1999, ISBN 0-13-1236132-X.
- Min, B.-K., O'Neil, G., Koren, Y. and Pasek, Z. (2002) Cutting process diagnostics utilising a smart cutting tool, *Mechanical Systems and Signal Processing, 16* (2-3), 475–486.
- Novak, A. and Wiklund, H. (1996) On-line prediction of the tool life, *Annals of the CIRP, 45* (1), 93–96.
- Park, K. S. and Kim, S. H. (1998) Artificial intelligence approaches to determination of CNC machining parameters in manufacturing: a review, *Artificial Intelligence in Engineering, 12*, 127–134.
- Rabiner, L. R. February (1989) A tutorial on hidden Markov models and selected applications in speech recognition, *Proceedings of the IEEE, 77* (2), 257–286.
- Santochi, M., Dini, G. and Tantuss, G. (1996) A sensor-integrated tool for cutting force monitoring, *Annals of the CIRP, 46* (1), 46–52.



- Scheffer, C. (2001) Monitoring of tool wear in turning operations using vibration measurements, Master's thesis, University of Pretoria,.
- Scheffer, C. (2003) *Development of a wear monitoring system for turning tools using artificial intelligence*, PhD thesis, University of Pretoria,.
- Scheffer, C. and Heyns, P. S. (2001) Wear monitoring in turning operations using vibration and strain measurements, *Mechanical Systems and Signal Processing*, 15 (6), 1185–1202.
- Scheffer, C., Katz, H., Heyns, P. S. and Klocke, F. (2003) Development of a tool wear-monitoring system for hard turning, *International Journal of Machine Tools and Manufacture*, 43, 973–985.
- Sick, B. (2002) Online and indirect tool wear monitoring in turning with artificial neural networks: A review of more than a decade of research, *Mechanical Systems and Signal Processing*, 16 (4), 487–546.
- Silva, R. G., Reuben, R. L., Baker, K. J. and Wilcox, S. J. (1998) Tool wear monitoring of turning operations by neural network and expert system classification of a feature set generated from multiple sensors, *Mechanical Systems and Signal Processing*, 12 (2), 319–332.
- Wang, L., Mehrabi, M. G. and Kannatey-Asibu, E. August (2002) Hidden Markov model based tool wear monitoring and turning, *Journal of Manufacturing Science and Engineering*, 124, 651–658.