



DAFTAR PUSTAKA

- Alemi, A., Corman, F. and Lodewijks, G. (2017) ‘Condition monitoring approaches for the detection of railway wheel defects’, *Proceedings of the Institution of Mechanical Engineers, Part F: Journal of Rail and Rapid Transit*. SAGE Publications Ltd, pp. 961–981. Available at: <https://doi.org/10.1177/0954409716656218>.
- Anderson, G.B. and Mcwilliams, R.S. (2003) *IMECE2003-44212 Vehicle Health Monitoring System Development and Deployment*. Available at: <https://proceedings.asmedigitalcollection.asme.org>.
- Auersch, L. (2022) ‘Different Types of Continuous Track Irregularities as Sources of Train-Induced Ground Vibration and the Importance of the Random Variation of the Track Support’, *Applied Sciences (Switzerland)*, 12(3). Available at: <https://doi.org/10.3390/app12031463>.
- Bajric, R. et al. (2016) ‘Feature extraction using discrete wavelet transform for gear fault diagnosis of wind turbine gearbox’, *Shock and Vibration*, 2016. Available at: <https://doi.org/10.1155/2016/6748469>.
- Bin, G.F. et al. (2012) ‘Early fault diagnosis of rotating machinery based on wavelet packets - Empirical mode decomposition feature extraction and neural network’, *Mechanical Systems and Signal Processing*, 27(1), pp. 696–711. Available at: <https://doi.org/10.1016/j.ymssp.2011.08.002>.
- Cahya, S.M.N. (2023) *PROYEK AKHIR Analisis Getaran pada Berbagai Kerusakan Rel Kereta Api Menggunakan Metode Support Vector Machine*.
- Charisma, G.E. (2021) *Laporan Tugas Akhir Pengembangan Instrumented Railway Vehicle (IRV) Berbasis Pengukuran Getaran Menggunakan Sensor Accelerometer01783-complete*.
- Chen, Q. et al. (2018) ‘A railway track geometry measuring trolley system based on aided INS’, *Sensors (Switzerland)*, 18(2). Available at: <https://doi.org/10.3390/s18020538>.
- Efraimsson, A. and Lemón, E. (2022) *Railway Fastener Fault Detection using YOLOv5*.



- Elia+, M. et al. (2006) *Condition Monitoring of The Railway Line and Overhead Equipment Through Onboard Train Measurement-An Italian Experience.*
- Engstrand, A. (2011) *Railway Surveying-A Case Study of The GRP 5000.*
- Falamarzi, A., Moridpour, S. and Nazem, M. (2019) ‘A Review on Existing Sensors and Devices for Inspecting Railway Infrastructure’, *Jurnal Kejuruteraan*, 31(1), pp. 1–10. Available at: [https://doi.org/10.17576/jkukm-2019-31\(1\)-01](https://doi.org/10.17576/jkukm-2019-31(1)-01).
- Gibert, X., Patel, V.M. and Chellappa, R. (2017) ‘Deep Multitask Learning for Railway Track Inspection’, *IEEE Transactions on Intelligent Transportation Systems*, 18(1), pp. 153–164. Available at: <https://doi.org/10.1109/TITS.2016.2568758>.
- HM, E., Mubarok, A. and Hasan, M.M. (2023) ‘PERAWATAN JALAN REL KERETA API ANTARA STASIUN TANJUNG PRIOK - STASIUN KEMAYORAN’, *SENTRI: Jurnal Riset Ilmiah*, 2(6). Available at: <https://doi.org/10.55681/sentri.v2i6.1055>.
- Ihlas, A. (2017) *Analisis Kerusakan Rel Kereta Api Angkutan Batubara.*
- KNKT (2024) ‘Laporan Investigasi Kecelakaan Perkeretaapian Anjlok KA 17 (Argo Semeru) Di Petak Jalan Sentolo-Wates, Daop 6 Yogyakarta 17 Oktober 2023’, KNKT.23.10.04.02.
- Lee, J. et al. (2016) ‘Fault detection and diagnosis of railway point machines by sound analysis’, *Sensors (Switzerland)*, 16(4). Available at: <https://doi.org/10.3390/s16040549>.
- Meyer, A. (2022) ‘Vibration Fault Diagnosis in Wind Turbines Based on Automated Feature Learning’, *Energies*, 15(4). Available at: <https://doi.org/10.3390/en15041514>.
- MORI, H. et al. (2013) ‘Development of Compact Size Onboard Device for Condition Monitoring of Railway Tracks’, *Journal of Mechanical Systems for Transportation and Logistics*, 6(2), pp. 142–149. Available at: <https://doi.org/10.1299/jmtl.6.142>.
- Ngamkhanong, C., Kaewunruen, S. and Baniotopoulos, C. (2021) ‘Influences of ballast degradation on railway track buckling’, *Engineering Failure Analysis* [Preprint].



- Ngigi, R.W. *et al.* (2012) ‘Modern techniques for condition monitoring of railway vehicle dynamics’, in *Journal of Physics: Conference Series*. Institute of Physics Publishing. Available at: <https://doi.org/10.1088/1742-6596/364/1/012016>.
- Nurul Hakim, N. (2020) *Implementasi Machine Learning pada Sistem Prediksi Kejadian dan Lokasi Patah Rel Kereta Api di Indonesia, Sistem Cerdas*.
- Peng, Z.K., Tse, P.W. and Chu, F.L. (2005) ‘An improved Hilbert-Huang transform and its application in vibration signal analysis’, *Journal of Sound and Vibration*, 286(1–2), pp. 187–205. Available at: <https://doi.org/10.1016/j.jsv.2004.10.005>.
- Rustam, F. *et al.* (2023) ‘Railway Track Fault Detection Using Selective MFCC Features from Acoustic Data’, *Sensors (Basel, Switzerland)*, 23(16). Available at: <https://doi.org/10.3390/s23167018>.
- Sandhy, R.I.D. (2023) *Analisis Getaran untuk Identifikasi Ketidaknormalan Rel Kereta Api dengan Menggunakan Machine Learning*.
- Saputra, D.M., Saputra, D. and Oswari, L.D. (2020) *Effect of Distance Metrics in Determining K-Value in KMeans Clustering Using Elbow and Silhouette Method*.
- Shimizu, M., Perinpanayagam, S. and Namoano, B. (2022) ‘Real-Time Techniques for Fault Detection on Railway Door Systems’, in *IEEE Aerospace Conference Proceedings*. IEEE Computer Society. Available at: <https://doi.org/10.1109/AERO53065.2022.9843627>.
- Tahir, et al. (2018) ‘Extracting accurate time domain features from vibration signals for reliable classification of bearing faults’, *International Journal of Advanced and Applied Sciences*, 5(1), pp. 156–163. Available at: <https://doi.org/10.21833/ijaas.2018.01.021>.
- Tse, F.S., Morse, I.E. and Hinkle, T. (1978) *Mechanical Vibrations Theory and Applications* SECOND EDITION.
- Tsunashima, H. (2019) ‘Condition monitoring of railway tracks from car-body vibration using a machine learning technique’, *Applied Sciences (Switzerland)*, 9(13). Available at: <https://doi.org/10.3390/APP9132734>.



- Wan, T.H. *et al.* (2023) ‘Anomaly detection of train wheels utilizing short-time Fourier transform and unsupervised learning algorithms’, *Engineering Applications of Artificial Intelligence*, 122. Available at: <https://doi.org/10.1016/j.engappai.2023.106037>.
- Winarno, A. (2023) ‘Intelligent Railway Vibration Monitoring System (IRV-MS) Intelligent Measurement’.
- Xu, X., Lei, Y. and Li, Z. (2020) ‘An Incorrect Data Detection Method for Big Data Cleaning of Machinery Condition Monitoring’, *IEEE Transactions on Industrial Electronics*, 67(3), pp. 2326–2336. Available at: <https://doi.org/10.1109/TIE.2019.2903774>.
- Yan, X. and Jia, M. (2018) ‘A novel optimized SVM classification algorithm with multi-domain feature and its application to fault diagnosis of rolling bearing’, *Neurocomputing*, 313, pp. 47–64. Available at: <https://doi.org/10.1016/j.neucom.2018.05.002>.
- Zhou, J. *et al.* (2015) ‘Fault detection of rolling bearing based on FFT and Classification’.