

Publications

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Journals (refereed):

1. C. Ruiz-Cárcel, Victor Hugo Jaramillo Velasquez; David Mba; James R Ottewill; Yi Cao, Combination of Process and Vibration Data for Improved Condition Monitoring of Industrial Systems Working Under Variable Operating Conditions, **Mechanical Systems and Signal Processing (MSSP), Accepted**, May 2015.
2. Elasha, F., Mba, D., Ruiz-Carcel, C., Pitting detection in worm gearboxes with vibration analysis, **Mechanisms and Machine Science**, Volume 23, Pages 231-241, 2015.
3. Hamad Rashid, C Simon Place, David Mba, Reuben Keong, Alastair Healey; Werner Kleine-Beek; Massimiliano Romano, Helicopter MGB Oil System Reliability Analysis Using Influence Diagrams and Random Failure Probabilities, **Engineering Failure Analysis Vol. 50, p7-19, 2015.**
4. H S J Rashid, C S Place, D Mba, R Lim, A Healey, W Kleine-Beek, M Romano, Reliability Model for Helicopter Main Gearbox Lubrication System using Influence Diagrams, **Reliability Engineering and System Safety**, Vol. 139, p50-57, **2015.**
5. C. Ruiz-Cárcel, Y. Cao, D. Mba, L. Lao, Statistical Process Monitoring of a Multiphase Flow Facility; Submitted and under review, **Control Engineering Practice, Accepted In-press**, April 2015.
6. Faris Elasha, Cristobal Ruiz-Cárcel; David Mba, Prof; Pramesh Chandara; A comparative study of the effectiveness of adaptive filter algorithms, spectral kurtosis and linear prediction in detection of a naturally degraded bearing in a gearbox, **Journal of Failure Analysis and Prevention, Accepted and in press**, July 2014.

7. David Mba, Lim Chi Keong Reuben, Condition Monitoring and Remaining Useful Life Prediction using Switching Kalman Filter, **International Journal of Strategic Engineering Asset Management (IJSEAM)**, Vol. 2, No. 1, 2014
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13. David Mba, Lim Chi Keong Reuben, Switching Kalman filter for failure prognosis of bearing damage progression. **MECHANICAL SYSTEMS AND SIGNAL PROCESSING**, Volume: 52-53 Pages: 426-435 Published: FEB 2015.
14. El-Alej, Mohamed, M. Corsar, Mba, D; Monitoring the presence of water and water-sand droplets in a horizontal pipe with Acoustic Emission technology, **Applied Acoustics**, Volume 82, Pages 38–44, 2014.
15. Mhmod Hamel, A Addali, David Mba, Investigation of the influence of oil film thickness on helical gear defect detection using Acoustic Emission, **Applied Acoustics**, volume 79, pp. 42 – 46, 2014.
16. David Mba, Lim Chi Keong Reuben, Bearing Time-to-Failure Estimation using Spectral Analysis Features. **Structural Health Monitoring**, doi: 10.1177/1475921713520029, **Structural Health Monitoring**, 13 (2), pp. 219-230, March 2014;
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