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| ***PAPER TITLE*** | ***YEAR*** | ***AUTHORS*** | ***PROPOESD WORK*** | ***ADVANTAGES*** | ***LIMITATIONS*** |
| Sensor signal segmentation for tool condition monitoring | 2016 | Sebastian Bombiński, Krzysztof Błażejak, Mirosław Nejman Krzysztof Jemielniaka,\* | Signal feature extraction and selection for tool condition  monitoring must be preceded by effective identification of  actual cutting time and effective automatic selection of steady  state signal segments, useful for this monitoring. | * Threshold   values are  calculated automatically, without user involvement. | * The Prediction analysis is   lacking |
| Analysing RMS and peak values of vibration signals for condition  monitoring of wind turbine gearboxes | 2016 | Joel Igba , Kazem Alemzadeh , Christopher Durugbo , Egill Thor Eiriksson | The result showed that signal correlation with  RMS values are good for detecting progressive failures such as HS  bearing pitting or shaft cracks as early as a month before failure. | * use of peak and RMS values   of vibration signals   * 3D plotting | * The Prediction analysis is   lacking |
| Recent Progress on Mechanical Condition Monitoring and  Fault diagnosis | 2011 | Chenxing Sheng, Zhixiong Lia, Li Qin, Zhiwei Guo, Yuelei Zhang | The fault diagnostic expert system can offer accurate estimation of the potential  abnormalities, and prevent them before breaking out to ensure the normal operation of the machines. | * Use of Advanced Signal Processing | * The Prediction analysis is   lacking |
| Using Wireless Vibration Monitoring to Enable Condition-Based  Maintenance of Rotating Machinery in the Water and Wastewater  Industries | 2014 | B. Myhrea  S. Petersen, R. Ugarelli | The wireless monitoring technologies can provide  early fault detection, which in turn should have the potential of being used to optimize maintenance planning and  reduce probability of failure. | * wireless monitoring * Use of decision -making | * The Prediction analysis is lacking |
| Fault diagnosis system of rotating machinery vibration signal | 2011 | Lei You, Jun Hu, Fang Fang, Lintao Duan | The fault diagnosis system of rotating machinery vibration signal, which can improve  the precision of testing vibration signal | * The conditions for further realization of   detail analysis of time-frequency domain were also provided. | * The Prediction analysis is lacking |
| Vibration-based Approach to Lifetime Prediction of Washing Machines | 2008 | Jiří Vass, Robert B. Randall, Sami Kara, Hartmut Kaebernick | Defective motors can be identified by characteristic  frequencies in the vibration spectrum (e.g. stator anomaly by  increased twice mains component).  . | * Lifetime of Washing Machines can   be Predicted | * It can predicted only some amount of data set. |