

Personal background

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Education

2007 Ph.D. Mechanical Engineering, Chung Yuan Christian University, Taiwan.
2000 B.S. Mechanical Engineering, Chung Yuan Christian University, Taiwan.

Professional experience

2008-Present The researcher of Mechanical and System Research Laboratories,
Industrial Technology Research Institute of Taiwan, R.O.C
2008-Present The Associate Professor of Mechanical Engineering, Chung Yuan
Christian University, Taiwan.

Research

- Research in fault diagnosis methods for rotating machinery.
- Intelligent autocleaner.
- Non-stationary time-frequency features extracting technology.

Projects

- The Wind Turbine diagnosis and monitoring for TP. Company.
- The motor-bearing diagnosis and monitoring for TECO.
- The acoustics of the golf wood.
- The vibration and noise diagnosis for compressor and dry pump.
- The hard-support balancing technique for impeller \ fan etc..
- The thermo-monitoring for the spindle.
- Non-linear vibration analysis.

Publication

1. Chun-Chieh Wang, Yuan Kang, Ping-Chen Shen, Yeon-Pun Chang, Yu-Liang Chung, (Accept) "Applications of Fault Diagnosis in Rotary Machinery by Using Time Series Analysis with Neural Network," *Expert System With Application*, 2009. (SCI)
2. Ping-Chen Shen, Yuan Kang, Chun-Chieh Wang, Yeon-Pun Chang, Hsing-Han Lee, "Study on the affection of gear fault diagnosis bases on HHT by noises," *The 3rd International Conference on Fuzzy Information and Engineering*, Sep. 26-29, Chongqing, China, 2009.
3. Tu, Tse-Yi, Chao, Paul C.-P., Chiu, Chi-Wei, Wang, Chun-Chieh, Huang, Jeng-Shen, "Fuzzy control design of a magnetically actuated optical image stabilizer with hysteresis compensation" *Journal of Applied Physics*, 105(7), pp. 07F124-1~3, 2009. (SCI)

4. Kang, Y., Wang, C.-C. and Chang, Y.-P., "Gear Fault Diagnosis in Time Domains by Using Bayesian Networks," *International Fuzzy Systems Association 2007 World Congress (Advances in Soft Computing)*, June 18-21, Cancun, Mexico, Vol. 42, pp. 741-751, 2007.
5. Kang, Y., Wang, C.-C. and Chang, Y.-P., "Gear Fault Diagnosis by Using Wavelet Neural Networks," *Fourth International Symposium on Neural Networks (Lecture Notes in Computer Science)*, June 3-7, Nanjing, China, Vol. 4493, pp. 580-588, 2007. (EI)
6. Wang, C. C., Kang, Y., Chang, Y. J. and Chang, Y. P., "Applications of Fuzzy Neural Networks for Grading," *Proceedings of 25th IASTED International Multi-Conference Artificial Intelligence and Applications*, February 12-14, Innsbruck, Austria, pp.78-83, 2007. (EI)
7. Yuan Kang, Chun-Chieh Wang, Yeon-Pun Chang, Diagnosis utilizing the P integration method for rotating machinery. *IASME Transactions*, 1(1), 2004, pp.30-35.
8. Yuan Kang, Ming-Hsuan Tseng, Shih-Ming Wang, Chih-Pin Chiang, Chun-Chieh Wang, An Accuracy Improvement for Balancing Crankshafts, *Mechanism and Machine Theory* 38(12), 2003, pp. 1449-1467. (SCI)
9. Yuan Kang, Chih-Pin Chiang, Chun-Chieh Wang, Tzu-Wei Lin, Yi-Jui Chui, The Minimization Method of Measuring Errors for Balancing Asymmetrical Rotors, *JSME International Journal: Series C* 46(3), 2003, pp.1017-1025. (SCI)