Curriculum Vitae

PERSONAL INFORMATION

Name: Fangji Wu **Gender:** Male
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EDUCATION

2001.9-2005.7
School of Mechanical Engineering, Xi'an Jiaotong University
Degree: B.E.
Major: Mechanical Engineering - Mechanical Engineering & Automation
2005.9-Present
School of Mechanical Engineering, Xi'an Jiaotong University
Doctoral Candidate, Advised by Prof. Liangsheng Qu and Prof. Binggang Cao
Major: Mechanical Engineering - Measurement & Instrument Technology
2008.9-Present
IMS Center, Mechanical Engineering Department, University of Cincinnati
Exchange research scholar, Advised by Prof. Jay Lee
Major: Mechanical Engineering – Intelligent Maintenance System

Publications

1. Fangji Wu*, Liangsheng Qu, An improved method for restraining the end effect in empirical mode decomposition and its applications to the fault diagnosis of large rotating machinery, *Journal of Sound and Vibration*, Accepted.

1. Fangji Wu*, Liangsheng Qu, Diagnosis of subharmonic faults of large rotating

machinery based on EMD, *Mechanical Systems and Signal Processing*, Accepted.

2. Yuhe Liao*, **Fangji Wu**, Liangsheng Qu, A unified field balancing method for flexible rotors based on holospectrum technique, *China Mechanical Engineering*, submitted.

Research Experiences

2004.9-2005.7 School of Mechanical Engineering, Xi'an Jiaotong University

Principle Research Projects:

Design the gear-fault-simulation test system. It can be used to simulate several different kinds of gear faults and can greatly assist the researchers to validate the fault diagnosis methods.

2005.9-Present Research Institute of Diagnostics and Cybernetics, Xi'an Jiaotong University

Principle Research Projects:

1. 2005.9-2006.9

Research on field balancing method based on holospectrum technique. Implement the field balancing practice on a 300MW steam turbine set, a gas turbine, and a 600MW steam turbine set.

2. 2005.9-Present

Condition monitoring and fault diagnosis of large rotating machinery: Research in real-time reliability assessment of running equipment through vibration monitoring and signal processing technique. Current research projects include integrity assessment on steam turbines, gas turbines, and centrifugal compressors, subharmonic fault diagnosis based on empirical mode decomposition method, and operating status trend prediction of power machine.