

# Curriculum Vitae

## PERSONAL INFORMATION

**Name:** Fangji Wu

**E-mail:** wfjridc@gmail.com

## 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.