Curriculum Vitae

Name: **Jingkang Liang / 梁 靖康**
Date of Birth: November 17, 1998
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Business Address: Room 1121, Automotive Technology Building, South China University of Technology (**SCUT**), 381 Wushan Rd, Tianhe District, Guangzhou, P. R. China, 510641
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Education

- September 2021 – Present: **Master Candidate**
  - Major in Mechanical Engineering, School of Mechanical & Automotive Engineering, **SCUT**
  - Specialize in Intelligent Fault Diagnosis with AutoML and light-weight model
  - GPA 3.6
  - **Supervisor: Weihua Li**
    Dean and Professor of the School of Mechanical & Automotive Engineering
    IEEE Senior Member; https://scholar.google.com/citations?user=u7UY9d0AAAAJ&hl=en
- September 2017 – July 2021 **B.S. Degree**
  - Major in Mechanical Engineering (Excellent Engineer Class), **SCUT**
  - Member of school RobotLab
  - GPA 3.63

Research Interests

- Diagnostic and Prognostic based on **Industrial Big Data**
- Artificial Intelligence Algorithms-based **Industrial Equipment Health Monitoring**
- **AutoML** and its Application in Fault Diagnosis, Prognostics, and Health Assessment

Publications

1. **Liang J**, Liao Y, Chen Z, et al. Intelligent fault diagnosis of rotating machinery using lightweight network with modified tree-structured parzenestimators[J]. IET Collaborative Intelligent Manufacturing, 2022, 4(3): 194-207. **(EI Journal)**
2. **Liang J**, Liao Y, Li W. Differentiable Architecture Searched Network with Tree-Structured Parzen Estimators for Rotating Machinery Fault Diagnosis[M]//Proceedings of IncoME-VI and TEPEN 2021: Performance Engineering and Maintenance Engineering. Cham: Springer International Publishing, 2022: 959-970. **(EI Conference)**
3. Li W, **Liang J**, Chen Z, Liao Y, Chen J, The invention relates to a rotating machinery fault diagnosis method, system, device and storage medium, Application publication number: CN115062648A, Application publication date: 2022.09.16 (**Acceptance of Invention Patent**)

Awards

1. iFlytek AI Developers Contest, Wine bottle crack recognition track 3rd place, November 2022
2. Outstanding Undergraduate Thesis, June 2021
3. National Scholarship, December 2019

4. RoboMaster University Series 2019, Second prize of national, August 2019

Project Experiences

【Funded by Government】

1. Jun. 2019 – Present
   Intelligent Maintenance Enabled & Closed-loop Feedback Driven High-end Equipment Manufacturing Service System
   (National Key Research and Development Program of China, Grant No. 2018YFB1702400, ￥487,000)

Presentations

- **Oral Presentation:** Differentiable Architecture Searched Network with Tree-Structured Parzen Estimators for Rotating Machinery Fault Diagnosis, **IncoME-VI and TEPEN 2021**, Tianjin, China, 2021.

Skills

Data Analysis, Deep Learning, Machine Learning, Python, Solidworks

Hobbies

UAV, Swimming, 3D printing, Badminton

Languages

IELTS 7.5

Thank you for your kind perusal!