Wei You

Shuangwan Huanyuan, Wuzhong District, Suzhou

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EDUCATION

Soochow University
PhD of Intelligent Transportation Science and Technology *September 2015 - Present*
Suzhou, China

Lawrence Berkeley National Laboratory
Joint Educated PhD Student *July 2018 - August 2019*
Berkeley CA, United States

Nantong University
Master in Mechanical Engineering *September 2012 - June 2015*
Nantong, China

Shandong University of Science and Technology
Bachelor in Mechanical Engineering *September 2008 - June 2012*
Qingdao, China

KEY SKILLS

Python, Machine Learning, Deep Learning, Tensorflow

ACADEMIC PROJECTS

Rotating Machine Fault Prognosis Based on Deep Learning *September 2015 – Present*
- Construction and training the deep learning model(CNN). Apply to the bearing fault diagnosis.
- Explore deep learning models, eg: convolution neural network
- Use Python for programming, including Tensorflow

MyGreenCar Methodology Implement *July 2018 - July 2019*
- Develop methodologies to generate second by second velocity trip
- Research on electric vehicle market, including charger port, maximum available power for each vehicle type
- Grasp the basic model for each electric vehicle available in U.S. market
- Build algorithm for annual distance calculation
- Scurvy to complete the feature information for the database
- Python programming

Volcano Event Detection and Classification *Jan 2019 – June 2019*
- Train a machine learning model to detect and classify volcano event

Study on flow and heat transfer characteristics of three offset cylinder arrays in transition flow
September 2012 – June 2015
- Numerical calculation was analyzed with the achieved desired results
- Establish the PIV Model. Roughing, semi-finishing and finishing workpiece were compiled
- Fortran, UG

AWARDS AND ACHIEVEMENTS

- China Conical Scholarship
- Soochow University First Class Graduate Scholarship
- Graduate Student Newspaper Editor

尤伟

苏州吴中区双湾花园二期

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教育背景

苏州大学

智能交通科学与技术 *2015.9 - 至今*

博士生

美国劳伦斯伯克利国家实验室

联合培养博士生 *2018.7 - 2019.8*

加州伯克利

南通大学

工学硕士 *2012.9 - 2015.6*

山东科技大学

工学学士 *2008.9 - 2012.6*

专业技能

Python, Machine Learning, Deep Learning, Tensorflow

项目经历

深度学习框架下机械故障识别研究 *2016.9 –Present*

- 构造神经网络将其应用于轴承故障诊断
- 学习探索深度学习模型, 例如: 卷积神经网络
- 使用 Python 编程，使用 Tensorflow GPU 运算

MyGreenCar 项目开发（Python） *2018.7 - 2019.7*

- 开发给定行驶路径模拟速度曲线生成算法
- 调研电动汽车市场，构建数据库，补充每种电动汽车充电插头，最大充电功率信息
- 数据采集，从网页中提取美国市场每辆电动汽车的基准车型
- 构建算法，用于车辆年行程估算
- 完善数据库信息，为给定参数匹配多辆车型

火山活动检测与识别 *2019.1 –2019.6*

- 训练深度学习模型 (UNet) 用于识别检测火山事件

过渡流状态下三列交叉圆柱列的传热强化机理研 *2012.9 –2015.6*

- 数值计算及分析圆柱列在过渡流状态下的传热强化机理，为紧凑型换热器设计提供理论依据
- 设计、完成 PIV 实验用水槽实验台的三维模型及搭建
- Fortran, UG