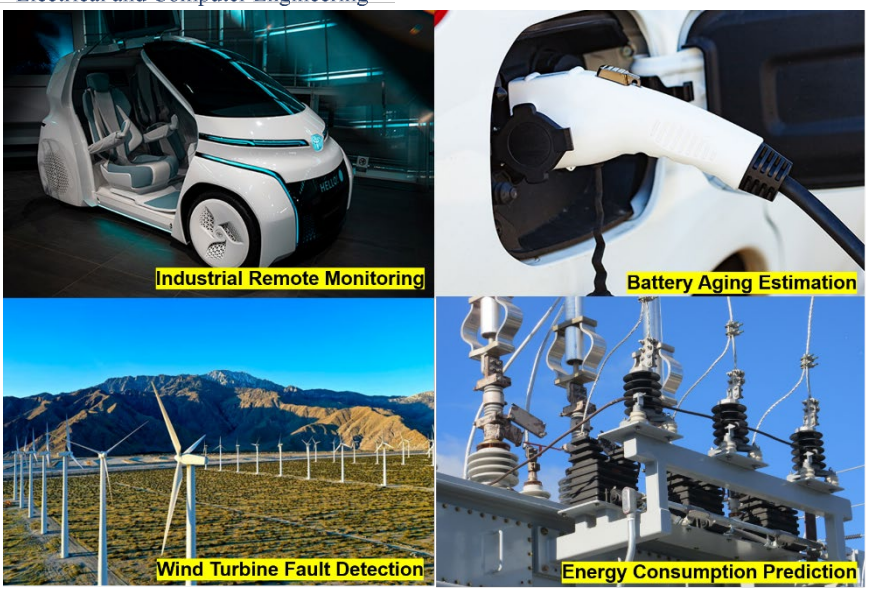
OPUS College of Engineering
MARQUETTE UNIVERSITY
Electrical and Computer Engineering

ELEN 4890/EECE 5890 Spring 2022
Developments in Computing: Artificial Intelligence for Industrial Applications



- Define Industrial AI application scenarios according to their industrial, analytic, and business functions
- Identify appropriate solutions based on Industrial AI case studies
- Recognize how industry developers format Industrial AI code

Student Feedback

-Very flexible course!

-Can learn how to apply ML for industry use!

-Walkthrough, and Explanation for all coding!

Instructor:
Dr. Dong Hye Ye, ECE, Marquette University.

FOXCONN iAI

COURSE FORMAT

- Asynchronous Online Lecture created by Foxconn iAI
- Active Discussion and Q&A Forums in D2L led by Instructor
- Hands-on Coding Lab and Projects with Real Industry Data

PROJECT EXAMPLES

- Predictive Maintenance
  - Turbofan Engine Lifetime Estimation
- Virtual Metrology
  - Planarization of Semiconductor Wafers
- Energy Management
  - Facility Energy Consumption Prediction
- Machine Vision
  - Quality Inspection of Steel Components
- Scheduling Optimization
  - Flexible Job-shop Scheduling

Or Propose Your Own Topic