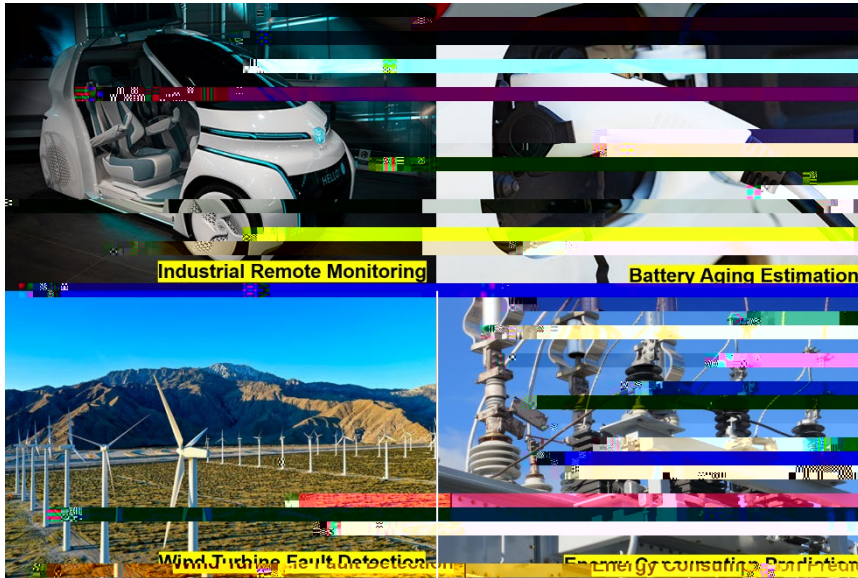




COEN 4890/EECE 5890 FALL 2021  
Developments in Computing:  
Artificial Intelligence for Industrial Applications



- Define **Industrial AI application scenarios** according to their industrial, analytic, and business functions
- Identify appropriate solutions based on **Industrial AI case studies**

**common industrial processes** including equipment maintenance, virtual metrology, energy management, defect detection, material sorting, and scheduling

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

- Asynchronous Online Lectures** 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