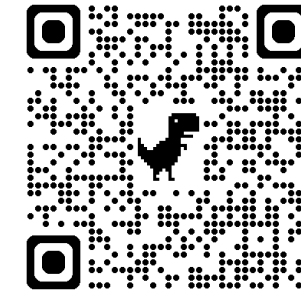




**Professor Jiho Lee**  
**Department of Mechanical Engineering**  
Assistant Professor  
**Smart Manufacturing • Industrial AI/ML • Autonomous Robotics •**  
**Digital Twins & Cyber Physical System (CPSs)**  
Advanced Smart Manufacturing Lab (ASML)

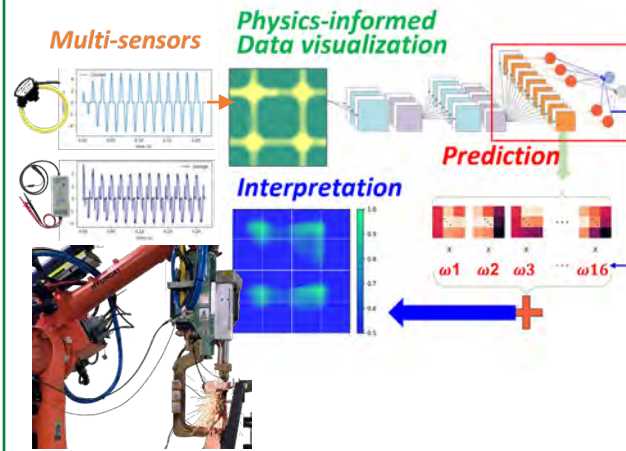


**Advanced Smart  
Manufacturing Lab  
(ASML)**

Website: [www.jiholee.xyz](http://www.jiholee.xyz)

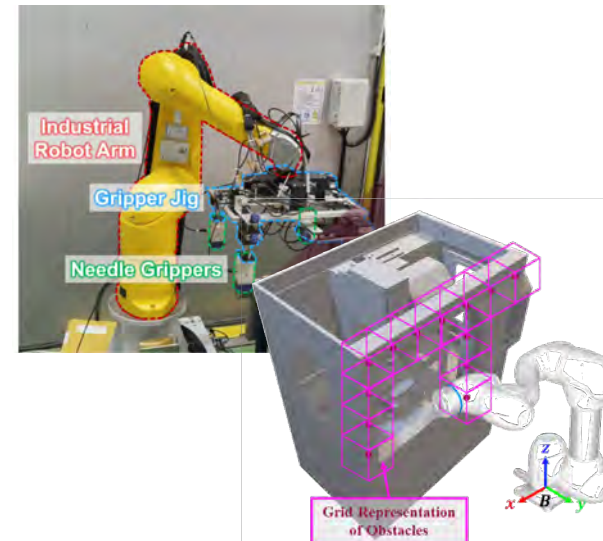
### Physics-Informed AI for Manufacturing Processes

- Explainable fault diagnostics through the integration of AI and physics
- Real-time process/machine monitoring using multi-sensor analytics



### Robotic Autonomous Systems & Digital Twin Manufacturing

- Automation of robotic process/task
- Immersive and interactive digital twin and cyber-physical systems (CPS)



### Generative AI Applications in Human-Centric Manufacturing

- LLM-based human-system interaction
- Generative AI agent for autonomous decision-making and explainability

