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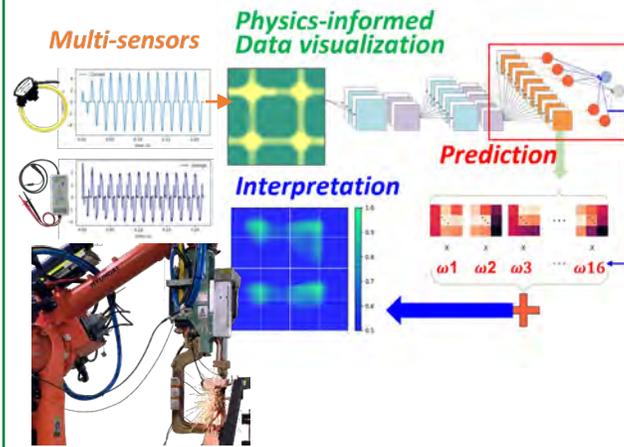


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 Manufacturing Lab
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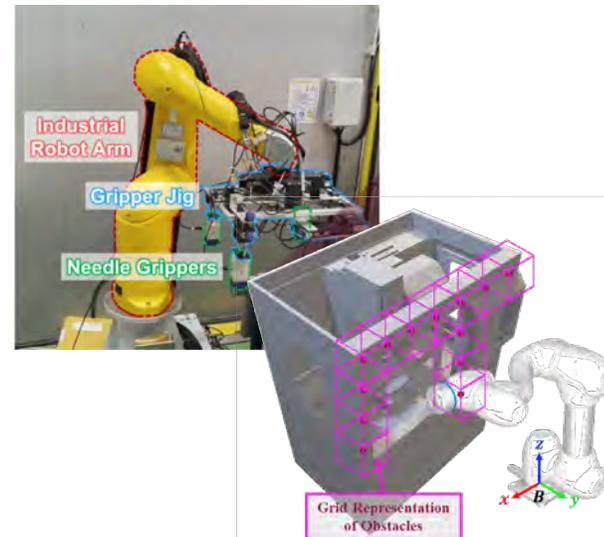
Physics-Informed AI for Manufacturing Processes

- 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

