

AIM – AI in Manufacturing at KTH

Smart manufacturing depends on the timely acquisition, distribution, and utilisation of information from machines and processes from manufacturing shop floors and across product lifecycles. Effective information sharing can improve production quality, reliability, resource efficiency and the recyclability of end-of-life products. Smart manufacturing built on digitalisation and AI also aims for better sustainability. As emerging technologies, cyber-physical systems, digital twins and human-centric collaborative assembly provide new opportunities to achieve the goals of smart manufacturing. Within the context, this presentation will focus on AI in Manufacturing (AIM) and cover the following topics:

- A brief intro to relevant background
- Latest advancement and future opportunities of smart manufacturing
- Showcases and future research directions

While advanced AI methods show great promise in smart manufacturing, challenges and future trends remain to be identified and will be highlighted in the presentation.



YEUNG - P7303

Yeung Kin Man Academic Building



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10:30 - 11:30 am

Professor Lihui Wang is a Chair Professor of Sustainable Manufacturing and the Director of Centre of Excellence in Production Research (XPRES) at KTH Royal Institute of Technology, Sweden. His research interests are primarily focused on human-robot collaboration, brain robotics, real-time monitoring and control, cyber-physical systems, and adaptive manufacturing systems. Professor Wang is actively engaged in various professional activities. He is the Editor-in-Chief of Robotics and Computer-Integrated Manufacturing, International Journal of Manufacturing Research, and Journal of Manufacturing Systems. He has published 12 books and authored in excess of 800 scientific publications. Professor Wang is a Fellow of Canadian Academy of Engineering, AET, CIRP, SME and ASME; the President (2020-2021) of North American Manufacturing Research Institution, and the Chairman (2018-2020) of Swedish Production Academy. He was elected one of the 20 Most Influential Professors in Smart Manufacturing in 2020, and a Gold Medal recipient from Society of Manufacturing Engineers in 2024.



Speaker

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