

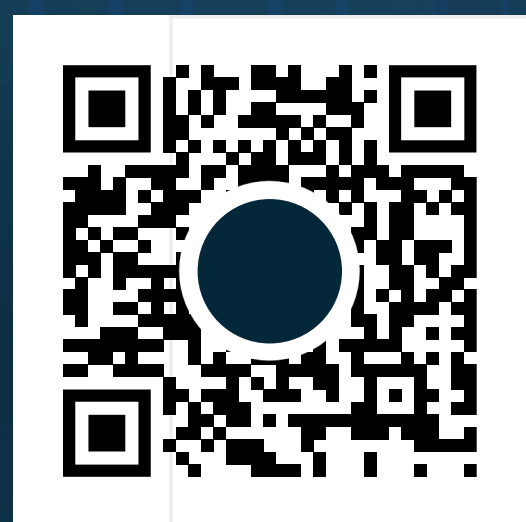
Organiser



Funding Organisation



# INTERNATIONAL CONFERENCE ON INNOVATIVE PREDICTIVE MAINTENANCE TECHNOLOGY FOR INDUSTRIES



**Register NOW!**

**Date:** 4 September 2026 (Fri)

**Time:** 10:00 - 17:10

**Venue:** Future Theatre (Theatre 2), 1/F, HKPC Building, 78 Tat Chee Avenue, Kowloon, Hong Kong and online broadcast

**Language:** English (Simultaneous interpretation in Cantonese is provided)

**Fee:** Free of charge

With the funding from the Innovation and Technology Fund (ITF) of the Innovation and Technology Commission of the Hong Kong Special Administrative Region Government, the Hong Kong Productivity Council will organize an industry-wide initiative comprising a full-day international conference and three specialized seminars. The International Conference on Innovative Predictive Maintenance Technologies will first be held on 4 September highlighting how the Internet of Things (IoT), artificial intelligence (AI), machine learning and big data analytics are reshaping asset monitoring, real-time equipment health assessment and failure prediction, helping industries transform from traditional reactive maintenance to predictive maintenance.

International experts and local industry representatives will share practical experience, technology adoption strategies and case studies, enabling participants to gain practical insights into precise maintenance scheduling, resource optimisation and reduced downtime, while building cross-sector communication and collaboration networks.

## Conference Highlights

- Global trends and standards in predictive maintenance and smart asset management.
- Application cases of IoT sensors, artificial intelligence and data analytics in real-time monitoring.
- Success stories from manufacturing, logistics and transportation, and infrastructure sectors.

Collaborating organization (in arbitrary order)



The Hong Kong Association for the  
Advancement of Science and Technology  
香港科技協進會



Hong Kong Plastic  
Machinery Association  
香港塑膠機械協會



香港汽車零件工業協會  
Hong Kong Auto Parts  
Industry Association



香港衣車協會  
HONG KONG APPAREL MACHINERY ASSOCIATION



IOTHK  
香港物聯網



Hong Kong Aviation  
Industry Association  
香港航空業協會



MDC  
HONG KONG  
MOULD & DIE COUNCIL  
香港模具協會  
香港工業總會轄下 A FHKI Council



香港汽車服務業聯會  
Federation of Automobile Services Industry Hong Kong



## Topic 1: Industrial Automation's Predictive Maintenance Enables Intelligent Manufacturing

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Mr Zou Lin Bing  
Industry Manager, Siemens Ltd., China Digital Factory Division

Siemens Digital Industries provides leading automation and digitalisation technologies for discrete and process industries. By unlocking the value of data, it helps customers realise their full potential. As an innovation leader, the group advances the Industrial Internet of Things by integrating operational technology (OT) with information technology (IT). Its Digital Enterprise portfolio delivers products, end-to-end solutions and services that enable businesses of all sizes and industries to integrate and digitalise their entire value chains.

Mr Zou joined Siemens Ltd., China, in January 2012. He has held positions including Factory Automation Product Manager, Product Sales Specialist and Smart Agriculture Industry Manager, bringing extensive industry knowledge and marketing experience. He is currently responsible for the Smart Agriculture sector at Siemens Ltd., China, where he leads the development and implementation of smart agriculture solutions. By integrating agricultural machinery, sensor devices, information systems, and plant and animal growth models, he applies automation and digitalisation technologies to support automated production, refined management, predictive maintenance, product standardisation and intelligent operations in the agricultural sector.

## Topic 2: Predictive Maintenance Powered by Four AI Technologies: User's Perspective

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Dr Andrew Kusiak  
Professor, Department of Industrial and Systems Engineering, The University of Iowa

Dr Andrew Kusiak is a Professor in the Department of Industrial and Systems Engineering at The University of Iowa, Iowa City and Director of Intelligent Systems Laboratory. His research focuses on applications of artificial intelligence in manufacturing, renewable energy, automation, sustainability, and healthcare. He is the author or coauthor of numerous books and hundreds of technical papers published in journals sponsored by leading professional societies.



## Topic 3: Predictive Maintenance in Smart Manufacturing: Intelligent Additive Manufacturing for Critical Aerospace Components

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Dr Wang Jilai  
Professor and Vice Dean of the School of Mechanical Engineering, Shandong University

Dr Jilai Wang is a Professor and doctoral supervisor at Shandong University and Vice Dean of the School of Mechanical Engineering. His research focuses on laser manufacturing technology and equipment development. He has published 52 papers and has been granted 43 invention patents.



## Topic 4: AI-Powered Predictive Maintenance: Applications and Practices in Smart Manufacturing

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Mr Grayson Sun  
Head, Intelligent New Industrialization and Emerging Technologies, Hong Kong Productivity Council

Mr Grayson Sun is the Head of Intelligent New Industrialisation and Emerging Technologies at the Hong Kong Productivity Council. Bringing 17+ years of smart manufacturing experience, he leads a high-performing team that takes innovations from concept to deployment—especially in AI-driven predictive maintenance and data-centric transformation of operations.



**Topic 5:**  
**Robotic Visual AI & Point Cloud Multi-model Inspection & Analysis for Facility Management**

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**Mr Ken Lee**  
Senior Manager, Digital Trust and Transformation Division, Hong Kong Productivity Council

Mr Ken Lee is a senior technology and innovation leader with 25+ years' experience in AI, digital transformation, e-commerce logistic, robotics, blockchain, mobile platforms, data analytics, enterprise architecture, and internet systems. 10+ years Leading research and development teams to research, commercialising emerging technologies, and delivering operational platforms, customer products, smart logistics, autonomous facility inspection and university-industry collaborations.



**Topic 6:**  
**Revolutionising Predictive Maintenance in Smart Manufacturing with Agentic AI and Digital Twins**

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**Dr Wong Ka Yiu**  
Senior Scientist, NVIDIA AI Technology Center HK

Dr Wong Ka Yiu is a Senior Scientist at the NVIDIA AI Technology Center, specializing in AI, computer vision and intelligent manufacturing. Previously Deputy Director at ASTRI, she led award-winning industrial AI and visual inspection technologies. She also served as an Adjunct Assistant Professor at The Hong Kong Polytechnic University.



**Topic 7:**  
**Predictive Maintenance in Smart Manufacturing: From Prediction to Action**

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**Prof Alp Akcay**  
Associate Professor, Department of Mechanical and Industrial Engineering, Northeastern University

Dr Alp Akcay earned his Ph.D. in Operations Management and Manufacturing from Carnegie Mellon University. His research uses operations research, machine learning, and simulation in digital twins, manufacturing, predictive maintenance, and supply chains. He co-chairs Manufacturing & Industry 4.0 Track at Winter Simulation Conference and is an Associate Editor of the Journal of Simulation.



**Topic 8:**  
**Fatigue Life Prediction of Welded Structures Based on Sparse Strain Measurements**

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**Dr Liu Yong**  
Associate Research Fellow, School of Materials Science and Engineering, Tianjin University

Led one National Natural Science Foundation of China project, one Tianjin Natural Science Foundation project, and one Inner Mongolia Autonomous Region Central Guidance for Local Science and Technology Development Fund project, and was responsible for over 10 enterprise research projects. Published 45 academic papers in fatigue and fracture fields, including journals such as Engineering Fracture Mechanics and International Journal of Fatigue, with more than 450 citations. Authored one national standard and co-authored the fourth edition of the "Welding Handbook."



| Time          | Programme                                                                                                                                                                                                                                    |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 09:30 - 10:00 | Registration                                                                                                                                                                                                                                 |
| 10:00 - 10:10 | Welcome Remarks                                                                                                                                                                                                                              |
| 10:10 - 10:55 | <b>Topic 1: Industrial Automation's Predictive Maintenance Enables Intelligent Manufacturing</b><br>Mr Zou Lin Bing<br>Industry Manager, Siemens Ltd., China Digital Factory Division                                                        |
| 10:55 - 11:40 | <b>Topic 2: Predictive Maintenance Powered by Four AI Technologies: User's Perspective</b><br>Dr Andrew Kusiak<br>Professor, Department of Industrial and Systems Engineering, The University of Iowa                                        |
| 11:40 - 11:55 | Break                                                                                                                                                                                                                                        |
| 11:55 - 12:40 | <b>Topic 3: Predictive Maintenance in Smart Manufacturing: Intelligent Additive Manufacturing for Critical Aerospace Components</b><br>Dr Wang Jilai<br>Professor and Vice Dean of the School of Mechanical Engineering, Shandong University |
| 12:40 - 12:55 | <b>Topic 4: AI-Powered Predictive Maintenance: Applications and Practices in Smart Manufacturing</b><br>Mr Grayson Sun<br>Head, Intelligent New Industrialization and Emerging Technologies, Hong Kong Productivity Council                  |
| 12:55 - 13:10 | <b>Topic 5: Robotic Visual AI &amp; Point Cloud Multi-model Inspection &amp; Analysis for Facility Management</b><br>Mr Ken Lee<br>Senior Manager of Digital Trust and Transformation Division, Hong Kong Productivity Council               |
| 13:10 - 14:30 | Lunch (Self-arrange)                                                                                                                                                                                                                         |
| 14:30 - 15:15 | <b>Topic 6: Revolutionising Predictive Maintenance in Smart Manufacturing with Agentic AI and Digital Twins</b><br>Dr Wong Ka Yiu<br>Senior Scientist, NVIDIA AI Technology Center HK                                                        |
| 15:15 - 16:00 | <b>Topic 7: Predictive Maintenance in Smart Manufacturing: From Prediction to Action</b><br><b>Prof Alp Akcay</b><br>Associate Professor, Department of Mechanical and Industrial Engineering, Northeastern University                       |
| 16:00 - 16:20 | Break                                                                                                                                                                                                                                        |
| 16:20 - 17:05 | <b>Topic 8: Fatigue Life Prediction of Welded Structures Based on Sparse Strain Measurements</b><br>Dr Liu Yong<br>Associate Research Fellow, School of Materials Science and Engineering, Tianjin University                                |
| 17:05 - 17:10 | Closing Remarks                                                                                                                                                                                                                              |

Disclaimer:

Any opinions, findings, conclusions or recommendations expressed in this material/event (or by members of the project team) do not reflect the views of the Government of the Hong Kong Special Administrative Region, the Innovation and Technology Commission or the General Support Programme Vetting Committee of the Innovation and Technology Fund.