

Prof. Lihui Wang

PhD, FCAE, FAET, FCIRP, FSME, FASME, PEng

Chair of Sustainable Manufacturing • Director of Centre of Excellence in Production Research
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Last Updated: 28 November 2023

EDUCATION

- PhD** (April 1990 - March 1993)
Intelligence Science, Kobe University, Kobe, Japan
- MSc** (April 1988 – March 1990)
Mechanical Engineering, Kobe University, Kobe, Japan
- BSc** (February 1978 – January 1982)
Machine Design, Academy of Arts and Design (now in Tsinghua University), China

AWARDS

SME Gold Medal

- Society of Manufacturing Engineers, to be awarded at annual Award Gala in June 2024

Best Paper Awards

- NSFC-RGC Conference, Hong Kong, China, April 2023
- Journal of Manufacturing Systems, March 1, 2021
- Swedish Production Symposium, Jönköping, Sweden, October 2020
- International Conference on APMS, Novi Sad, Serbia, September 2020
- ASME MSEC, Blacksburg, VA, USA, June 2016.
- International Conference on FAIM, Dresden, Germany, July 2002

Best Poster Award

- The 4th IFIP Conference on Virtual Enterprises, Lugano, Switzerland, October 2003

Outstanding Paper Awards

- North American Manufacturing Research Conference, Blacksburg, VA, USA, June 2016
- North American Manufacturing Research Conference, Monterrey, Mexico, May 2008

Best Organiser of Symposium and Sessions (BOSS) Award

- ASME Manufacturing Science and Engineering Conference, Detroit, USA, June 2014

8 Corporate Awards from National Research Council, Canada

- On Excellence and Leadership in R&D, 2002, 2003, 2005
- On Global Reach, 2002, 2003, 2004
- On Multidisciplinary Collaborative Research, 2002
- On Outstanding People, 2005

EDITORSHIP

Editor-in-Chief

- International Journal of Manufacturing Research
- Journal of Manufacturing Systems
- Robotics and Computer-Integrated Manufacturing

Editor (2007-2019)

- Journal of Intelligent Manufacturing

Associate Editor

- CIRP Journal of Manufacturing Science and Technology
- International Journal of Production Research

Editorial Board Member

- Smart Science
- Aeronautical Manufacturing Technology
- Chinese Journal of Mechanical Engineering
- Journal of Industrial and Production Engineering
- International Journal of Computer Integrated Manufacturing
- International Journal of Enterprise Network Management
- International Journal of Mechatronics and Manufacturing Systems
- International Journal of Network and Mobile Technologies
- International Journal of Service and Computing Oriented Manufacturing
- International Journal of Lean Enterprise Research

ACADEMIC CONTRIBUTIONS

Journal Papers: 384; **Conference Papers:** 282; **Books:** 10; **Book Chapters:** 32

Journal Special Issues: 40; **Conference Proceedings:** 15; **Research Grants:** 31

Seminars and Invited Presentations: 191 (including 74 keynote speeches)

h-index: 59 (Web of Science) | 68 (Scopus) | 75 (ResearchGate) | 81 (Google Scholar)

MEMBERSHIP**International Academy of Engineering and Technology (AET)**

- Vice President (2023-2025)
- AET Fellow (since 2022)

The Canadian Academy of Engineering (CAE)

- CAE Fellow (since 2019)

The International Academy for Production Engineering (CIRP)

- CIRP Fellow (since 2015)

Swedish Production Academy (SPA)

- Chairman (2018-2020) of SPA Presidium

Professional Engineers Ontario

- Registered Professional Engineer (PEng) in Canada

Society of Manufacturing Engineers (SME)

- SME Fellow (since 2011)
- President (2020-2021), North American Manufacturing Research Institution (NAMRI)
- Chair (2016-2018), Scientific Committee of NAMRI/SME
- Chair-Elect (2014-2016), Scientific Committee of NAMRI/SME

American Society of Mechanical Engineers (ASME)

- ASME Fellow (since 2013)
- Chair (2008-2010), Manufacturing Systems Technical Committee, MED/ASME

**WORKING
EXPERIENCE****Chair Professor** (Current Position)

Department of Production Engineering, KTH, Stockholm, Sweden

Professor (November 2008 – October 2012)

Virtual Systems Research Centre, University of Skövde, Sweden

Research Scientist/Senior Research Scientist (October 1998 – October 2008)

National Research Council of Canada, London, Ontario, Canada

Visiting Professor (April 1997 – September 1998)

Department of Mechanical Engineering, University of Calgary, Canada

Assistant Professor (April 1995 – March 1997)

Dept. of Production Systems Engineering, Toyohashi University of Technology, Japan

Assistant Professor (April 1993 – March 1995)

Division of Intelligence Science, Kobe University, Japan

**RECENT
PUBLICATIONS**

- S. Liu, **L. Wang** and R.X. Gao, "Cognitive Neuroscience and Robotics: Advancements and Future Research Directions," *Robotics and Computer-Integrated Manufacturing*, Vol.85, 102610, 2024.
- Z. Liu, Q. Liu, W. Xu, **L. Wang** and Z. Ji, "Adaptive Real-Time Similar Repetitive Manual Procedure Prediction and Robotic Procedure Generation for Human-Robot Collaboration," *Advanced Engineering Informatics*, Vol.58, 102129, 2023.
- J. Zhang, S. Liu, R.X. Gao and **L. Wang**, "Neural Rendering-Enabled 3D Modeling for Rapid Digitization of In-Service Products," *CIRP Annals – Manufacturing Technology*, Vol.72, No.1, pp.93-96, 2023.
- P. Zheng, S. Li, J. Fan, C. Li and **L. Wang**, "A Collaborative Intelligence-Based Approach for Handling Human-Robot Collaboration Uncertainties," *CIRP Annals – Manufacturing Technology*, Vol.72, No.1, pp.1-4, 2023.
- C. Li, P. Zheng, Y. Yin, B. Wang and **L. Wang**, "Deep Reinforcement Learning in Smart Manufacturing: A Systematic Review and Prospects," *CIRP Journal of Manufacturing Science and Technology*, Vol.40, pp.75-101, 2023.
- L. Ren, Z. Jia, T. Wang, Y. Ma and **L. Wang**, "LM-CNN: A Cloud-Edge Collaborative Method for Adaptive Fault Diagnosis with Label Sampling Space Enlarging," *IEEE Transactions on Industrial Informatics*, Vol.18, No.12, pp. 9057-9067, 2022.
- S. Liu, X.V. Wang and **L. Wang**, "Digital Twin-Enabled Advance Execution for Human-Robot Collaborative Assembly," *CIRP Annals – Manufacturing Technology*, Vol.71, No.1, pp.25-28, 2022.
- X. Li, X. Liu, C. Yue, S.Y. Liang and **L. Wang**, "Systematic Review on Tool Breakage Monitoring Techniques in Machining Operations," *International Journal of Machine Tools and Manufacture*, Vol.176, 103882, 2022.
- L. Wang**, "A Futuristic Perspective on Human-Centric Assembly," *Journal of Manufacturing Systems*, Vol.62, pp.199-201, 2022.
- Q. Ji, M. Chen, C. Zhao, X. Zhang, X.V. Wang, **L. Wang** and L. Feng, "Feedback Control for the Precise Shape Morphing of 4D Printed Shape Memory Polymer," *IEEE Transactions on Industrial Electronics*, Vol.68, No.12, pp.12698-12707, 2021.
- L. Wang**, "From Intelligence Science to Intelligent Manufacturing," *Engineering*, Vol.5, No.4, pp.615-618, 2019.