

Kun Liao, PhD

Experience

Director, Supply Chain Management Institute	2024-current
Professor of Supply Chain Management	2018- current
Associate Professor	2013-2018
Assistant Professor	2007- 2013
Department of Finance and Supply Chain Management College of Business Central Washington University	

Education

PhD., Manufacturing Management and Engineering College of Business and Innovation University of Toledo	2008
M.S., Industrial Engineering College of Engineering University of Toledo	2004
B.E, Machine Design and Manufacturing College of Engineering Tsinghua University	1993

Teaching:

Current:

ENTP287: Applied Product Development
SCM 310: Supply Chain Management
SCM 320: Business Project Management
SCM 460/560: Supply Chain Analytics
SCM 492: Lean Six Sigma Practicum
MBA505: Executive Skills (Seminar)
MBA580: Sustainable Supply Chain Management

Previous:

SCM 480: Supply Chain Strategy
SCM 425: Procurement and Supply management
SCM 420: Lean/Six Sigma Process

Research

Research Interest

- ◆ Supply Chan Strategy
- ◆ Buyer – Supplier Relationship
- ◆ Supply Chain and Business Risk Management

- ◆ Artificial Intelligence in Supply Chain
- ◆ Digital Product Development

Selected Journal Publication

1. Liao, K., Tang, P., Wang, J. and Wang, F. (2025) 'Exploring the development efficiency and effectiveness of digital products', *Int. J. Technology, Policy and Management* (In Press)
2. Liao, K., Bayazit, O. and Tang, P. (2025) 'Artificial intelligence in trucking industry: a triple-win environmental, social and governance approach', *Int. J. Business Continuity and Risk Management*, Vol. 15, No. 1, pp.32–45.
3. Bayazit, O. and Liao, K., (2024) 'Enhancing Supply Chain Management Education: Insights from Integrating SAP in a Case Study', *American Journal of Information Technology*, 2024, Vol. 14, No. 1, pp. 28-39.
4. Chen, Y., Liu, X., Tu, J. and Liao, K. (2024) 'The impact of climate change on the entry of newly registered enterprises', *Int. J. Technology, Policy and Management*, Vol. 24, No. 4, pp.392–416.
5. Chen, Y., Wen, X. and Liao, K. (2023) 'The establishment of electric vehicle supply chain and its resilience to supply chain interruptions', *Int. J. Technology, Policy and Management*, Vol. 23, No. 4, pp.410–430.
6. Chen, Y., Chen, Y., Wang, F. and Liao, K. (2021) 'Does environmental regulation promote the upgrading of industrial structure? Evidence from the Yangtze River economic belt in China', *Int. J. Environment and Pollution*, Vol. 69, Nos. 3/4, pp.179–196
7. Liao, K., Deng, X., Liao, Y., & Zhang, X. (2020). Supplier empowerment: Mediating situational factors and perceived performance. *Journal of Purchasing and Supply Management*, 26(3).
8. Wu, Q., Liao, K., Deng, X., & Massillac, E. (2020). Achieving automotive suppliers' mass customization through modularity: Vital antecedents and the valuable role and responsibility of information sharing. *Journal of Manufacturing Technology Management*, 31(2), 306–329.
9. Wu, Q., Liao, Y., Liao, K. and Li, B. (2020) 'Optimisation evaluation on material distribution systems: from the perspective of automobile manufactures', *Int. J. Technology, Policy and Management*, Vol. 20, No. 2, pp.104–115.
10. Zhong, K., Cao, Y., & Liao, K. (2020). The Diversification Effect of Defense Business on Risk and Return. *Quarterly Journal of Finance and Accounting*, 58(1/2), 33-66.
11. Liao, K., Deng, X., Wang, Y. and Bayazit, O. (2019), 'Proposing a Framework for Developing Supply Chains of Medical Devices,' *Operations and Supply Chain Management* 12(3) pp. 153 – 164

12. Liao, K., Deng, X., & Marsillac, E. (2013). Factors that influence Chinese automotive suppliers' mass customization capabilities. *International Journal of Production Economics*, 146(1), 25–36.
13. Ying Liao, Kun Liao, Qiang Tu, and Mark Vonderembse, (2011), “A Mechanism for External Competence Transfer to Improve Manufacturing System Capabilities and Market Performance,” *International Journal of Production Economics*, Vol. 132 Issue: 1, pp. 68-78.
14. Kun Liao, Erika Massillac, Eldon Johnson, and Ying Liao, (2011), “Global Supply Chain Adaptations to Improve Financial Performance: Supply Base Establishment and Logistics Integration,” *Journal of Manufacturing Technology Management* Vol. 22 Issue: 2, pp.204 – 222
15. Kun Liao, Qiang Tu and Erika Massillac (2010), “The Role of Modularity and Integration in Enhancing Manufacturing Performance: An Absorptive Capacity Perspective,” *Journal of Manufacturing Technology Management*, Vol. 21, No. 7
16. Ying Liao, Kun Liao and Robert Hutchinson (2010), “A Conceptual Framework for Prototyping Outsourcing in New Product Development: A Knowledge-based View,” *Journal of Manufacturing Technology Management*, Vol. 21 No.1.
17. Zhongming Ma, Kun Liao and Johnny Jiung-Yee Lee (2010), “Examining Comparative Shopping Agents from Two Types of Search Results,” *Information Systems Management*, Vol. 27 No.1, pp. 3-9.
18. Robert Hutchinson and Kun Liao (2009), “Zen Accounting: How Japanese Costing Techniques Support Lean Management,” *Management Accounting Quarterly*, Vol. 11, No.1, pp. 27-35.
19. Kun Liao and Qiang Tu (2008), “Leveraging Automation and Integration to Improve Manufacturing Performance under Uncertainty – An Empirical Study,” *Journal of Manufacturing Technology Management*, Vol. 19 No. 1.
20. Kun Liao and Paul Hong (2007), “Effective Global Supplier Network Building: a Supplier Portfolio Entry Model,” *Journal of Enterprise Information Management*, Vol. 20 No. 5.

Conference Presentation/Proceeding (recent 5 years)

1. Jianfeng Wang, Kun Liao, and Pingping Tang, Digital product development and digital visual effects – a case study of digital film and video game market. The 35th Costa Rica Conference on Business and Finance, *Global Conference on Business and Finance Proceedings*, Volume 18, Number 2, 2023
2. Kun Liao, Artificial intelligence in trucking industry: A triple-win environmental, social, and governance approach, The Eighth Global Supply Chain Management Conference (GSCM 2020 Virtual Conference), Toledo, OH, USA, 2020.

Service

University Service

- ◆ University Equal Opportunity Committee, Summer Quarter 2025- Spring 2028
- ◆ College of Business Faculty Standards Committee Fall Quarter 2024 - Spring Quarter 2026
- ◆ College of Business Sustainability Task Force Fall Quarter 2024 - Spring Quarter 2025
- ◆ Department Personnel Committee (Chair) Fall Quarter 2024 - Spring Quarter 2025
- ◆ Department Curriculum Task Force Fall Quarter 2024 - Spring Quarter 2025
- ◆ College of Business MBA Committee Fall Quarter 2024 - Spring Quarter 2025
- ◆ Faculty Development Committee Fall Quarter 2023 - Spring Quarter 2024
- ◆ Department Personnel Committee Fall Quarter 2023 - Spring Quarter 2024
- ◆ Scholarship Committee Fall Quarter 2020 - Spring Quarter 2022
- ◆ Faculty Committee (Chair/member) Fall Quarter 2016 - Spring Quarter 2022
- ◆ Department Personnel Committee Winter Quarter 2021
- ◆ College Diversity Committee Summer Quarter 2020
- ◆ Department Personnel Committee Winter Quarter 2020
- ◆ University Sabbatical Leave Committee (Chair) Fall Quarter 2016 - Spring Quarter 2019
- ◆ SOURCE (Lynnwood/Westside coordinator) Fall Quarter 2008 - Fall Quarter 2017
- ◆ Department Personnel Committee Fall Quarter 2015 - Summer Quarter 2016
- ◆ Student Committee Fall Quarter 2007 - Summer Quarter 2016
- ◆ Department Personal Committee Fall Quarter 2013 - Summer Quarter 2014

Professional Service

- ◆ Editorial Board Member, American Journal of Information Technology, current
- ◆ Guest Editor, International Journal of Business Continuity and Risk Management, 2013-2014
- ◆ Guest Editor, International Journal of Technology, Policy and Management, 2010-2012
- ◆ Associate Editor, Operations and Supply Chain Management: An International Journal
- ◆ Reviewer, American Journal of Information Technology, International Journal of Production Economics.

Award

- ◆ Research Excellence Award—College of Business, Central Washington University, 2018
- ◆ Best Paper Award - The 45th National Decision Science Institute Annual Conference, 2014
- ◆ Distinguished Paper Award – The 41st National Decision Science Institute Annual Conference, 2010
- ◆ George H. Barrows Master Award- American Society for Quality, 2007

Membership

- ◆ Institute of Supply Management
- ◆ Decision Science Institute