



Linda ZHANG

Ph.D.in Industrial Engineering

Full Professor, Operations Management

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EDUCATION

- 2012** HDR, Management Sciences, Economics, University of Paris 13, France
- 2007** Ph.D.in Industrial Engineering, Nanyang Technological University, Singapore
- 1998** Bachelor in Industrial Engineering, Tianjin University, China

PROFESSIONAL CERTIFICATION

- 2008** Teaching in Higher Education, University of Groningen, Netherlands

RESEARCH INTERESTS

Healthcare service design and management, The design and development of high value-added, customer driven products and the corresponding systems, Warehousing systems

EMPLOYMENT EXPERIENCE

ACADEMIC:

- 2014 - 2014** Visiting Professor, University of Science and Technology of China, Hefei, China
- 2014 - 2014** Visiting Professor of Operations Management, Singapore Management University, Singapore
- 2014 - 2014** Visiting Professor, University of Science and Technology of China, China
- 2012 - Present** Full professor, IÉSEG School of Management, Lille, France
- 2011 - 2012** Associate professor, IÉSEG School of Management, Paris, France
- 2011 - 2011** Visiting scholar, Ecole des Mines d'Albi, Albi, France
- 2011 - Present** Honorary faculty member, RMIT Univeristy, Melbourne, Australia
- 2010 - 2010** Visiting scholar, University of Vaasa, Vaasa, Finland
- 2007 - 2011** Assistant professor, University of Groningen, Groningen, Netherlands
- 2006 - 2007** Adjunct lecturer, Singapore Management University, Singapore, Singapore

PROFESSIONAL:

- 2000 - 2002** Industrial engineer, STS Microelectronics Co., Shenzhen, China
- 1998 - 2000** Industrial engineer, Celestica, Dongguan, China

COURSES TAUGHT

- Operations management strategy and company observation, Grande ecole

INTELLECTUAL CONTRIBUTIONS

Papers in refereed journals

Published

- , Wang Y., Li X., Zhang L., Mo D., (2021), Configuring products with natural language: A simple yet effective approach based on text embeddings and multilayer perceptron, *International Journal of Production Research*, NA(NA), pp. 1-13
- Xie Q., Zhang L., Shang H., Emrouznejad A., Li Y., (2021), Evaluating Performance of Super-Efficiency Models in Ranking Efficient Decision-Making Units based on Monte Carlo Simulations, *Annals of Operations Research*, 305(n.a.), pp. 273-323
- Li Y., Lin Lin L., Dai Q., Zhang L., (2020), Allocating Common Costs of Multinational Companies based on the Arm's Length Principle and the Nash Non-Cooperative Game, *European Journal of Operational Research*, 28(3), pp. 1002-1010
- Raut R., Gardas B., Narkhede B., Zhang L., (2020), Supplier selection and performance evaluation for formulating supplier selection strategy by MCDM-based approach, *International Journal of Business Excellence*, 20(4), pp. 500-520
- Zhang L., Du G., Wu J., Ma Y., (2020), Joint production planning, pricing and retailer selection with emission trading: A Stackelberg model and nested genetic algorithm, *Expert Systems with Applications*, 161(113733), pp. 1-11
- Zhang L., Lee C., Akhtar P., (2020), Towards customization: Evaluation of integrated sales, product, and production configuration, *International Journal of Production Economics*, 229(107775), pp. 1-13
- Zhang L., (2018), Procurement risk management under uncertainty: A review, *Industrial Management and Data Systems*, 118(7), pp. 1547-1754.
- Hong Z., Chu C., Zhang L., Yu Y., (2017), Optimizing an emission trading scheme for local governments: A Stackelberg game model and hybrid algorithm, *International Journal of Production Economics*, 193, pp. 172-182
- Zhang L., Narkhede B., Chaple A., (2017), Evaluating lean manufacturing barriers: An interpretive process, *Journal of Manufacturing Technology Management*, 28(8), pp. 1086-1114.
- Zhang L., Lee C., Zhang S., (2016), An integrated model for strategic supply chain design: Formulation and ABC-based solution approach, *Expert Systems with Applications*, 52, pp. 39-49
- Hao J., Yu Y., Zhang L., (2015), Optimal design of a 3D compact storage system with the I/O port at the lower midpoint of the storage rack, *International Journal of Production Research*, 53(17), pp. 5153-5173
- Zhang L., (2015), A literature review on multitype platforming and framework for future research, *International Journal of Production Economics*, 168, pp. 1-12
- Zhang L., Jiang N., Yu Y., (2015), Optimizing cooperative advertising, profit sharing, and inventory policies in a VMI supply chain: A Nash bargaining model and hybrid algorithm, *IEEE Transactions on Engineering Management*, 62(4), pp. 449-461
- Zhang L., (2014), Product configuration: A review of the state of the art and future research, *International Journal of Production Research*, 52(21), pp. 6381-6398
- Wu D., Zhang L., Jiao J., Lu R., (2013), SysML-based design chain information modeling for sheet metal production reconfiguration, *Journal of Intelligent Manufacturing*, 24(3), pp. 575-596
- Yu Y., Hong Z., Zhang L., Liang L., Chu C., (2013), Optimal Selection of Retailers for a Manufacturing Vendor in a Vendor Managed Inventory System, *European Journal of Operational Research*, 225(2), pp. 273-284
- Zhang L., Jiao R., (2013), A Graph Rewriting System for Process Platform Planning, *Decision Support Systems*, 54(2), pp. 1174-1191

- Zhang L., Rodrigues B., (2013), A Petri net model of process platform-based production configuration, *Journal of Manufacturing Technology Management*, 24(6), pp. 873-904
- Zhang L., Vareilles E., Aldanondo M., (2013), Generic Bill of Functions, Materials and Operations for SAP2 Configuration, *International Journal of Production Research*, 51(2), pp. 465-478
- Zhang L., Xu Q., Helo P., (2013), A knowledge-based system for process family planning, *Journal of Manufacturing Technology Management*, 24(2), pp. 174-196
- Alblas A., Zhang L., Wortmann H., (2012), Representing function-technology platform based on the unified modeling language, *International Journal of Production Research*, 50(12), pp. 3236-3256
- Zhang L., Xu Q., Helo P., (2012), A methodology integrating Petri nets and knowledge-based systems to support process family planning, *International Journal of Production Research*, 50(12), pp. 3192-3210
- Zhang L., Xu Q., Yu Y., Jiao R., (2012), Domain-based Production Configuration with Constraint Satisfaction, *International Journal of Production Research*, 50(24), pp. 7149-7166
- Lee C., Hu H., Lin D., Zhang L., (2011), Determining the throughput of a CONWIP system using adjusted ARM, *Journal of Manufacturing Technology Management*, 22(7), pp. 853-869
- Zhang L., Jiao J., Ma Q., (2010), Accountability-based order fulfillment process reengineering towards supply chain management: A case study at a semiconductor equipment manufacturer, *Journal of Manufacturing Technology Management*, 21(4), pp. 287-305
- Zhang L., Rodrigues B., (2010), Nested colored timed Petri nets for production configuration of product families, *International Journal of Production Research*, 48(6), pp. 1805-1833
- Zhang L., (2009), Modeling process platforms based on an object-oriented visual diagrammatic modeling language, *International Journal of Production Research*, 47(16), pp. 4413-4435
- Zhang L., Jiao J., (2009), Modeling production configuration based on nested colored object-oriented Petri nets with changeable structures, *Journal of Intelligent Manufacturing*, 20(4), pp. 359-378
- Zhang L., Rodrigues B., (2009), Modeling reconfigurable manufacturing systems with colored timed Petri nets, *International Journal of Production Research*, 47(16), pp. 4569-4591
- Zhang L., You X., Jiao J., Helo P., (2009), Supply chain configuration with coordinated product, process and logistics decision: An approach based on Petri nets, *International Journal of Production Research*, 47(23), pp. 6681-6706
- Jiao J., Pokharel S., Kumar A., Zhang L., (2007), Development of an online quality information system for e-manufacturing, *Journal of Manufacturing Technology Management*, 18(1), pp. 36-53
- Jiao J., Zhang L., Pokharel S., (2007), Process platform planning for variety coordination from design to production in mass customization manufacturing, *IEEE Transactions on Engineering Management*, 54(1), pp. 112-129
- Jiao J., Zhang L., Pokharel S., He Z., (2007), Identifying generic routings for product families in mass customization production based on text mining and tree matching, *Decision Support Systems*, 43(3), pp. 866-883
- Zhang L., Jiao J., Helo P., (2007), Process platform representation based on unified modeling language, *International Journal of Production Research*, 45(2), pp. 323-350
- Jiao J., Zhang L., Pokharel S., (2005), Coordinating product and process variety for mass customized order fulfillment, *Production Planning and Control*, 16(6), pp. 608-620
- Jiao J., Zhang L., Prasanna K., (2004), Process variety modeling for process configuration in mass customization: An approach based on object-oriented Petri nets with changeable structures, *International Journal of Flexible Manufacturing Systems*, 16(4), pp. 335-361

Papers in non-refereed journals

Published

- Zhang L., (2015), Applying platforming concept in healthcare services development: Comparison, issues, and future Research , *Management Review: An International Journal*, 10(1), pp. 29-60
- Zhang L., (2012), Identifying mapping relationships between functions and technologies with association rule mining, *International Journal of Computer Integrated Manufacturing*, 25(6), pp. 496-508
- Van Houten T., Zhang L., (2010), Managing assets in the infrastructure sector, *International Journal of Engineering Business Management*, 2(2), pp. 55-60

Zhang L., Lee C., Xu Q., (2010), Towards product customization: An integrated order fulfillment system, *Computers in Industry*, 61(3), pp. 213-222

Lee C., Lee P., Zhang L., Au K., (2009), Using ERP systems to transform business processes: A case study at a precision engineering company, *International Journal of Engineering Business Management*, 1(1), pp. 19-24

Xu Q., You X., Zhang L., Jiao J., (2009), Modeling workflows and collaboration in virtual supply chains with nested modular Petri nets, *International Journal of Computer Applications in Technology*, *International Journal of Computer Applications in Technology*, 36(3/4), pp. 208-232

Zhang L., Rodrigues B., (2009), A Petri net-based approach to reconfigurable manufacturing systems modeling, *Journal on Systemics, Cybernetics and Informatics*, 7(1), pp. 18-24

Zhang L., Rodrigues B., (2009), A tree unification approach to constructing generic processes, *IIE Transactions*, 41(10), pp. 916-929

Jiao J., Zhang L., Zhang Y., Pokharel S., (2008), Association rule mining for product and process variety mapping, *International Journal of Computer Integrated Manufacturing*, 21(2), pp. 111-124

Jiao J., Zhang L., Pokharel S., (2006), Process platform planning for mass customization production, *International Journal of Mass Customisation*, 1(2-3), pp. 237-259

Jiao J., Zhang L., Pokharel S., (2004), Internet-enabled information management for configure-to-order product fulfillment, *Asia Pacific Management Review*, 9(5), pp. 851-876

Communications in refereed conferences

International

Zhang L., Narkhede B., Chaple A., (2017), *Interpretive Ranking Process-based Lean Manufacturing Barrier Evaluation* The IEEE International Conference on Industrial Engineering and Engineering Management, Singapore, Singapore

Zhang L., (2016), *A Cloud-based Approach to Specifying New Components in Open Configuration* IEEE International Conference on Industrial Engineering and Engineering Management, Bali, Indonesia

Hakami A., Zhang L., Kumar A., (2014), *Managing upstream supply chain complexity by utilizing purchasing competencies* The 2014 International Conference on Industrial Engineering and Operations Management (IEOM 2014), Bali, Indonesia

Zhang L., (2014), *A generic model of integrated sales, product, and production configuration* The 4th International Conference on Industrial Engineering & Engineering Management (IEOM 2014), Bali, Indonesia

Zhang L., Aldanondo M., Kumar A., (2014), *Healthcare platforming for healthcare service development in hospitals* IEEE International Conference on Industrial Engineering and Engineering Management, Kuala Lumpur, Malaysia

Zhang L., Leus R., Kowalczyk D., (2014), *Process family planning: An optimization-based approach* IEEE International Conference on Industrial Engineering and Engineering Management, Kuala Lumpur, Malaysia

Pitiot P., Aldanondo M., Vareilles E., Coudert T., Zhang L., (2013), *Optimizing concurrent configuration and planning: A proposition to reduce computation time* The 2013 IEEE International Conferences on Industrial Engineering and Engineering Management (IEEM), Bangkok, Thailand

Zhang L., Yu Y., Zhang L., (2013), *Determining optimal zone boundaries for three-class-based puzzle-based compact storage systems* The 2013 IEEE International Conferences on Industrial Engineering and Engineering Management (IEEM), Bangkok, Thailand

Pitiot P., Aldanondo M., Vareilles E., Zhang L., Coudert T., (2012), *Some experimental results relevant to the optimization of configuration and planning problems* 2012 World Intelligence Congress, Hong Kong, China

Zhang L., (2012), *An association rule mining methodology for variety management*, International Conference on Management and Service Science (MASS 2012), Shanghai, China

Zhang L., (2012), *Constructing generic processes for process family planning based on tree unification* IEEE International Conference on Industrial Engineering and Engineering Management, Hong Kong, China

Zhang L., (2012), *Generic modeling propositions for configuring sales, product and production* IEEE International Conference on Industrial Engineering and Engineering Management, Hong Kong, China

Zhang L., (2011), *Designing an Integrated Order Fulfillment System for Configure-to-Order Production* The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), SINGAPORE, Singapore

Zhang L., (2011), *Identifying Mapping Relationships between Functions and Technologies: an Approach based on Association Rule Mining*, The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), SINGAPORE, Singapore

Zhang L., (2011), *Planning Process Families with a Knowledge-based System* The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Singapore, Singapore

Zhang L., (2011), *Process Family Planning: a Methodology Integrating Petri Nets and Knowledge-based Systems*, The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), SINGAPORE, Singapore

Other conference and seminar presentations

International

Zhang L., Tütüncü Y., Franko C., (2018), *Optimizing (r, Q) Decisions Considering Misplaced Items: Lost-sales and Backorder Cases* 2018 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Bangkok, Thailand

Zhang L., (2015), *Supply Chain Planning with Integrated Decision Making in Resource Allocation* The Fifth International Conference on Industrial Engineering and Operations Management (IEOM 2015), Dubai, United Arab Emirates

Books

Published

Zhang L., (2011), *Process platforms and production configuration for mass customization: Basics, concepts and methods*, 978-3639329896, VDM Verlag Dr. Müller, Sarrebruck, 192 pages

Chapters in books

Published

Zhang L., (2011), *Planning process families with PROGRES*, in: Modrak, V., Pandian, S.(Eds.), *Operations Management Research and Cellular Manufacturing: Innovative Methods and Approaches*, 978-1613500477, IGI Global, Hershey, PA, chapter 15, pp. 317-335

Jiao J., Zhang L., (2008), *Data mining applications of process platform formation for high variety production*, in: Liao, T.W., Triantaphyllou, E.(Eds.), *Recent Advances in Data Mining of Enterprise Data: Algorithms and Applications*, 978-981-277-985-4, World Scientific Publishing, Singapore, chapter 5, pp. 247-286

Jiao J., Zhang L., Pokharel S., (2006), *Process platform and production configuration for product families*, in: Simpson, T.W., Siddique, Z., Jiao, J.(Eds.), *Product Platform and Product Family Design: Methods and Applications*, 978-0-387-25721-1, Kluwer Academic Publishers, New York, chapter 16, pp. 377-402

Grants

2018 Research seed grant, LEM UMR CNRS (France)

SCIENTIFIC PRIZES AND AWARDS

Award

2018 IEOM Distinguished Service Award, The IEOM Society International, USA

2014 Best Paper Award, The 4th International Conference on Industrial Engineering & Engineering Management (IEOM 2014), January 7-9, 2014, Bali, Indonesia, Indonesia

2013 Outstanding Paper Award, The 2013 IEEE International Conferences on Industrial Engineering and Engineering Management (IEEM), December 10 – 13, 2013, Bangkok, Thailand, Thailand

2010 Outstanding Paper Award (100 US dollars) for paper: Solving production configuration based on constraint satisfaction., The 2010 IEEE International Conferences on Industrial Engineering and Engineering Management (IEEM), China

2010 A Feature Article in Oct 2009 for paper: A tree unification approach to constructing generic processes, IIE Transactions, 2009, 41(10), 916-929., IIE Transactions, USA

- 2010 IEEE Technology Management Council Singapore Chapter Best Student Paper Award 2009/2010 (1000 SG dollars) for paper: Supply chain configuration with coordinated product, process and logistics decision: An approach based on Petri nets, International Journal of Production Research, 2009, 47(23), 6681-6706., IEEE Technology Management Council Singapore Chapter, Singapore
- 2010 Honorary scholarship (2500 Euros), University of Groningen, Netherlands
- 2010 Grant for overseas visit (5000 Euros), University of Groningen, Netherlands
- 2010 Grant for exploration of collaboration opportunities with Finnish universities (750 Euros), University of Groningen, Netherlands
- 2008 Best Paper Award. Paper: A colored timed Petri nets approach to reconfigurable manufacturing systems modeling, The 12th World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI 2008, USA
- 2007 Emerald LiteratiNetwork Highly Recommended Award for paper: Development of an online quality information system for e-manufacturing, Journal of Manufacturing Technology Management, 2007, 18(1), 36-53., Journal of Manufacturing Technology Management, United Kingdom

PROFESSIONAL MEMBERSHIPS

The IEOM Society International, USA

EDITORIAL ACTIVITY

Guest editor of an academic journal

- 2017 International Journal of Industrial Engineering and Operations Management
- International Journal of Industrial Engineering and Operations Management

Member of the editorial board of an academic journal

- 2017 International Journal of Industrial Engineering and Operations Management
- 2014 Enterprise Information Systems
- 2013 Journal of Manufacturing Technology Management
- 2012 Journal of Industrial Engineering
- 2012 International Journal of Engineering Business Management
- Journal of Manufacturing Technology Management

PROFESSIONAL SERVICE

Chair in an academic conference

- 2018 The 8th International Conference on Industrial Engineering and Operations Management, March 6 – 8, 2018, Bandung, Indonesia, Indonesia
- 2017 The 2017 IEEE International Conference on Industrial Engineering and Engineering Management, Singapore
- 2016 The 2016 IEEE International Conference on Industrial Engineering and Engineering Management, Indonesia
- 2015 The 2015 IEEE International Conference on Industrial Engineering and Engineering Management, Singapore
- 2014 The 2014 IEEE International Conference on Industrial Engineering and Engineering Management, Malaysia
- 2014 The 5th International Conference on Management Research (ICMR 2014), Pakistan

- 2018 International IEEE Conference on Industrial Engineering and Eng Management, Dec 2018, Bangkok, Thailand

Chair of the organizing committee of an academic conference

- 2017 The 19th Configuration Workshop (<https://www.ieseg.fr/en/events/19th-configuration-workshop-2017/>), France
- The 2nd IEOM European Conference (<http://ieomsociety.org/paris2018/>)

Member of the organizing committee of an academic conference

- 2015 The 2015 IEEE International Conference on Industrial Engineering and Engineering Management, Singapore
- The 2019 IEEM International Conference on Industrial Engineering and Engineering Management (IEEM), December 15-18, 2029, Macau, China

Member of the scientific committee of an academic conference

- 2015 The 17th Configuration Workshop., Austria
- The 10th IEOM Annual Conference, Dubai, UAE, March 2020.
- The 10th Annual IEOM International Conference, Dubai, UAE, March 2020
- The 2nd South African IEOM International Conference, San Paulo, Brazil, April 2020.

Session chair in an academic conference

- 2012 International Conference on Management and Service Science (MASS), China
- 2010 IEEE International Conference on Industrial Engineering and Engineering Management, China
- 2009 IEEE International Conference on Industrial Engineering and Engineering Management, China
- 2009 International Conferences on Enterprise Information Systems, Italy
- 2008 World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI, USA
- 2008 International Conferences on Enterprise Information Systems, Spain
- 2007 Asia Pacific Management Conference, Australia

Technical program committee member

- 2015 The 5th International Conference on Industrial Engineering and Operations Management (IEOM 2015), United Arab Emirates
- 2014 The 2014 IEEE International Conference on Industrial Engineering and Engineering Management, Malaysia
- 2012 International Conference on Industrial Engineering and Operations Management (IEOM), Turkey
- 2011 IEEE International Conference on Quality and Reliability, Thailand
- 2011 International Conference on Product Lifecycle Management, Netherlands
- 2011 IEEE International Conference on Industrial Engineering and Engineering Management, Malaysia
- 2010 International Conference on Product Lifecycle Management, Germany
- 2010 IEEE International Conference on Industrial Engineering and Engineering Management, China

- 2009** IEEE International Conference on Industrial Engineering and Engineering Management, China
- 2009** World Multi-Conference on Systemics, Cybernetics and Informatics: WMSCI, USA
- 2009** International Conference on Product Lifecycle Management, United Kingdom
- 2008** IEEE International Conference on Industrial Engineering and Engineering Management, Singapore
- 2014** The 16th Configuration Workshop, Serbia and Montenegro

INSTITUTIONAL SERVICE

Head of a recruitment jury (orals)

4 full days oral examinations, IÉSEG School of Management, France

Participation in recruitment of professors

Pre-selected candidates, attended interview meetings and presentations, IÉSEG School of Management, France

Participation in track faculty member recruitment

Participate all the OM faculty recruitment interviews, IÉSEG School of Management, France

Substantial support to students' association and activity

Faculty advisor, IÉSEG School of Management, France

Setup the IEOM Student Chapter @ IESEG and advice the chapter activities, IÉSEG School of Management, France

Track research seminar Coordinator

Organizing invited workshop and research seminars

Supervision of Ph.D. Thesis:

- 2021** Director, Sustainable supply chain decision making considering intricate interactions and practical factors
- 2018** Co-director, An integration of Lean, Agile, Resilient, and Sustainable supply chain management paradigms: a trade-off model based on the multi-criteria decision-making approaches, RMIT Univeristy
- 2013** Director, Developing service platform for improving business performance of healthcare providers, University of Science and Technology of China
- 2013** Director, Developing open configuration for product customization, IÉSEG School of Management
- 2011** Director, Investigating upstream manufacturing complexity, RMIT Univeristy