



# **Linda ZHANG**

## Ph.D.in Industrial Engineering

## **Full Professor, Operations Management**

### **Academic Director**

I.zhang@ieseg.fr

### **EDUCATION**

2012	HDR, Management Scien	ices. Economics.	. University of	f 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

### PROFESSIONAL EXPERIENCE

### **ACADEMIC:**

<b>2014 - 2014</b> Visiting Professor, University of Science and Technology of China, Chil	na
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2014 - 2014 Visiting Professor of Operations Management, Singapore Management University, Singapore

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2014 - 2014 Visiting Professor, University of Science and Technology of China, Hefei, China

2012 - Present Full professor, IÉSEG School of Management, Lille, France

2011 - 2011 Visiting scholar, Ecole des Mines d'Albi, Albi, France

2011 - 2012 Associate professor, IÉSEG School of Management, Paris, 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 (master cycle)

### INTELLECTUAL CONTRIBUTIONS

### Papers in refereed journals

#### **Published**

Hong Z., Chu J., Zhang L., Wang N., (2024), Recycling channel selection for a manufacturer involving consumers' green-return behavior, *IEEE Transactions on Engineering Management*, 71(2024), pp. 8761-8776

Ma S., Zhang L., Cai X., (2024), Optimizing joint technology selection, production planning and pricing decisions under emission tax: A Stackelberg game model and nested genetic algorithm, *Expert Systems with Applications*, 238(Part D), pp. 122085

Tutuncu Y., Zhang L., Yuce G., (2024), Optimal (r, Q) models considering inventory shrinkage, *TWMS Journal of Applied and Engineering Mathematics*, 14(4), pp. 1736-1758

Du J., Shen Z., Song M., Zhang L., (2023), Nexus between Digital Transformation and Energy Technology Innovation: An Empirical Test of A-Share Listed Enterprises, *Energy Economics*, 120(2023), pp. 106572

Raut R., Narkhede B., Zhang L., Kumar S., (2023), Ranking critical success factors for implementation of Lean-Industry 4.0: A methodology based on DEMATEL and ANP, *International Journal of Computer Integrated Manufacturing*, 36(6), pp. 894-907

Wang Y., Li X., Zhang L., Mo D., (2022), Configuring products with natural language: A simple yet effective approach based on text embeddings and multilayer perceptron, *International Journal of Production Research*, 60(17), pp. 5394-5406

Zhang L., Liu C., Lee C. K. M., (2022), Pricing strategy in a dual-channel supply chain with overconfident consumers, *Computers and Industrial Engineering*, 172(108515), pp. 1-17

Zhang L., Shafiee S., (2022), Developing Separate or Integrated Configurators? A Longitudinal Case Study, *International Journal of Production Economics*, 249(108517), pp. 1-17

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(2021), 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(2020), pp. 107775

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(xx), 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(xx), 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(xx), 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., (2012), Identifying mapping relationships between functions and technologies with association rule mining, *International Journal of Computer Integrated Manufacturing*, 25(6), pp. 496-508
- 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, *Journal of Manufacturing Technology Management*, 22(7), pp. 853-869
- Van Houten T. P., Zhang L., (2010), Managing assets in the infrastructure sector, *International Journal of Engineering Business Management*, 2(2), pp. 55-60
- 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., Lee C. K. M., Xu Q., (2010), Towards product customization: An integrated order fulfillment system, *Computers in Industry*, 61(3), pp. 213-222
- 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
- Lee C., Lee P., Zhang L., Au K., (2009), Using ERP systems to transform business processes: A case study at a precession engineering company, *International Journal of Engineering Business Management*, 1(1), pp. 19-24
- 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), A tree unification approach to constructing generic processes, *IIE Transactions*, 41(10), pp. 916-929
- 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., 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., 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

### **Forthcoming**

Ma S., Zhang L., (2024), Optimizing joint operations decision-making involving substitute products: A Stackelberg game model and Nested PSO, *Annals of Operations Research*, tbd(tbd), pp. tbd

### Papers in non-refereed journals

## **Published**

- Zhang L., Shafiee S., Mortensen N., Hansen H. N., (2022), Integrated product configuration systems with manufacturing system reconfiguration, *Procedia CIRP*, 107(1), pp. 999-1004
- 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
- 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
- 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

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., Siddque, 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)

#### **GRANTS AND HONORS**

# Award

- 2018 IEOM Distinguished Service Award, The IEOM Society International, USA
- 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 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
- 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 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 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
- 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 a academic journal

2017 International Journal of Industrial Engineering and Operations Management

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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

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	
	The 16th Configuration Workshop, Serbia and Montenegro	

## **RESEARCH ACTIVITIES**

### **COMMITTEE CHAIR**

# 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 University
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