

CHUNG-LUN LI

CONTACT INFORMATION

Address: Department of Logistics and Maritime Studies, Faculty of Business, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong

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CAREER HISTORY

The Hong Kong Polytechnic University, Hong Kong

Mar 2007 – present Chair Professor of Logistics Management, Department of Logistics and Maritime Studies

Jul 2011 – Jun 2014 Head, Department of Logistics and Maritime Studies (formerly known as Department of Logistics)

Jan 2003 – Feb 2007 Professor, Department of Logistics

Jan 2003 – Oct 2004 Head, Department of Logistics (formerly known as Department of Shipping and Transport Logistics)

The Hong Kong University of Science and Technology, Hong Kong

Jan 2000 – Dec 2002 Associate Professor, Department of Industrial Engineering and Engineering Management

Washington University, St. Louis, Missouri, U.S.A.

Jul 1995 – Dec 1999 Associate Professor of Management Science, John M. Olin School of Business

Jul 1990 – Jun 1995 Assistant Professor of Management Science, John M. Olin School of Business

VISITING POSITIONS

Massachusetts Institute of Technology, Cambridge, Massachusetts, U.S.A.

Aug 2006 – Apr 2007 Visiting Professor, Department of Civil and Environmental Engineering

The Hong Kong Polytechnic University, Hong Kong

Jun 1997 – Jul 1997 Senior Research Fellow, Department of Management

EDUCATION

- 1990 EngScD, Operations Research, Columbia University, New York, NY, U.S.A.
- 1985 MS, Operations Research, Stanford University, Stanford, CA, U.S.A.
- 1984 BSc, Applied Mathematics, The University of Hong Kong, Hong Kong

AWARDS

Teaching Excellence Appreciation Award, School of Engineering, The Hong Kong University of Science and Technology, Spring 2000.

Marcile and James Reid Professor, John M. Olin School of Business, Washington University, 1995–96.

Reid Teaching Award, John M. Olin School of Business, Washington University, 1994.

The Jacob Wolfowitz Prize, *American Journal of Mathematical and Management Sciences*. Paper title: “Probabilistic Analysis of Heuristics for the Vehicle Routing Problem with Time Windows” (authors: J. Bramel, C.-L. Li, and D. Simchi-Levi), 1994.

COURSES TAUGHT

The Hong Kong Polytechnic University, Hong Kong

Contemporary Topics in Business Research (MPhil/PhD; jointly taught with other faculty members)

Freshman Seminar (BBA; jointly taught with other faculty members)

Management Science (BA/BBA/BSc)

Models for Decision Making (MSc)

Operations Management (MBA)

Special Topics in Operations Management (MSc/PhD; jointly taught with other faculty members)

Strategic Supply Chain and Logistics Management (DBA)

Supply Chain Management (BA/BBA/BSc/MSc)

The Hong Kong University of Science and Technology, Hong Kong

Integrated Production Systems (BEng)

Logistics Models and Operations (MTM; jointly taught with other faculty members)

Management Science (MTM)

Operations Research Applications (MSc)

Operations Research Applications in Industries and Services (BEng)

Operations Research I (BEng)

Routing and Scheduling (GDTLM; jointly taught with another faculty member)

Washington University, St. Louis, Missouri, U.S.A.

Advanced Management Science (MBA)

Information Systems and Decision Support Tools (MBA)

Management Science (BSBA/MBA/EMBA)

Operations Planning and Control (BSBA/MBA)

Spreadsheet Modeling for Management Science (MBA)

Columbia University, New York, New York, U.S.A.

Introduction to Operations Research—Deterministic Models (MS)

STUDENT SUPERVISION

Shuai Jia, PhD, 2020 (chief supervisor; jointly supervised with Zhou Xu)

Qingying Li, PhD, 2013 (chief supervisor; jointly supervised with Pengfei Guo)

Liang Xu, PhD, 2012 (co-supervisor; jointly supervised with Zhou Xu)

Jinwen Ou, PhD, 2007

Wen-Qiang Xiao, PhD, 2002

Chun-Yan Chan, MPhil, 2001 (jointly supervised with Jiyin Liu)

Yongpei Guan, MPhil, 2001 (jointly supervised with Raymond K. Cheung)

Wuqin Lin, MPhil, 2000 (jointly supervised with Raymond K. Cheung)

PUBLICATIONS

- [1] Li, C.-L., S.T. McCormick and D. Simchi-Levi, “The Complexity of Finding Two Disjoint Paths with Min-Max Objective Function,” *Discrete Applied Mathematics*, vol. 26, no. 1, pp. 105–115, 1990.
- [2] Li, C.-L. and D. Simchi-Levi, “Worst-Case Analysis of Heuristics for Multidepot Capacitated Vehicle Routing Problems,” *ORSA Journal on Computing*, vol. 2, no. 1, pp. 64–73, 1990.
- [3] Eppstein, D., J. Feigenbaum and C.-L. Li, “Equipartitions of Graphs,” *Discrete Mathematics*, vol. 91, no. 3, pp. 239–248, 1991.
- [4] Gavish, B., C.-L. Li and D. Simchi-Levi, “Analysis of Heuristics for the Design of Tree Networks,” *Annals of Operations Research*, vol. 36, pp. 77–86, 1992.
- [5] Li, C.-L., S.T. McCormick and D. Simchi-Levi, “The Point-to-Point Delivery and Connection Problems: Complexity and Algorithms,” *Discrete Applied Mathematics*, vol. 36, no. 3, pp. 267–292, 1992.
- [6] Li, C.-L., “Dynamic Programming Approach to the $n/m/\text{parallel}/\sum_{i=1}^m\{\sum w_j \sum t_j\}$ Scheduling Problem,” *Applied Mathematics Letters*, vol. 5, no. 5, pp. 79–80, 1992.
- [7] Li, C.-L., D. Simchi-Levi and M. Desrochers, “On the Distance Constrained Vehicle Routing Problem,” *Operations Research*, vol. 40, no. 4, pp. 790–799, 1992.
- [8] Li, C.-L., S.T. McCormick and D. Simchi-Levi, “On the Minimum-Cardinality-Bounded-Diameter and the Bounded-Cardinality-Minimum-Diameter Edge Addition Problems,” *Operations Research Letters*, vol. 11, no. 5, pp. 303–308, 1992.
- [9] Li, C.-L., S.T. McCormick and D. Simchi-Levi, “Finding Disjoint Paths with Different Path-Costs: Complexity and Algorithms,” *Networks*, vol. 22, no. 7, pp. 653–667, 1992.
- [10] Li, C.-L., Z.-L. Chen and T.C.E. Cheng, “A Note on One-Processor Scheduling with Asymmetric Earliness and Tardiness Penalties,” *Operations Research Letters*, vol. 13, no. 1, pp. 45–48, 1993.
- [11] Bramel, J., C.-L. Li and D. Simchi-Levi, “Probabilistic Analysis of Heuristics for the Vehicle Routing Problem with Time Windows,” *American Journal of Mathematical and Management Sciences*, vol. 13, nos. 3–4, pp. 267–322, 1993 (1994 Jacob Wolfowitz Prize winning paper).
- [12] Li, C.-L. and T.C.E. Cheng, “The Parallel Machine Min-Max Weighted Absolute Lateness Scheduling Problem,” *Naval Research Logistics*, vol. 41, no. 1, pp. 33–46, 1994.
- [13] Alfa, A.S., K.L. Dolhun and C.-L. Li, “A Scheduling Problem in a Semi-Open Job Shop—The Case of a Cordset Manufacturing Company,” *Mathematical and Computer Modelling*, vol. 20, no. 2, pp. 1–8, 1994.

- [14] Janiak, A. and C.-L. Li, "Scheduling to Minimize the Total Weighted Completion Time with a Constraint on the Release Time Resource Consumption," *Mathematical and Computer Modelling*, vol. 20, no. 2, pp. 53–58, 1994.
- [15] Li, C.-L., "Scheduling with Resource Dependent Release Dates—A Comparison of Two Different Resource Consumption Functions," *Naval Research Logistics*, vol. 41, no. 6, pp. 807–819, 1994.
- [16] Li, C.-L. and T.C.E. Cheng, "An Economic Production Quantity Model with Learning and Forgetting Considerations," *Production and Operations Management*, vol. 3, no. 2, pp. 118–132, 1994.
- [17] Li, C.-L., T.C.E. Cheng and Z.-L. Chen, "Single Machine Scheduling to Minimize the Weighted Number of Early and Tardy Agreeable Jobs," *Computers & Operations Research*, vol. 22, no. 2, pp. 205–219, 1995.
- [18] Li, C.-L., "Scheduling to Minimize the Total Resource Consumption with a Constraint on the Sum of Completion Times," *European Journal of Operational Research*, vol. 80, no. 2, pp. 381–388, 1995.
- [19] Li, C.-L., "A Heuristic for Parallel Machine Scheduling with Agreeable Due Dates to Minimize the Number of Late Jobs," *Computers & Operations Research*, vol. 22, no. 3, pp. 277–283, 1995.
- [20] Li, C.-L., E.C. Sewell and T.C.E. Cheng, "Scheduling to Minimize Release-Time Resource Consumption and Tardiness Costs," *Naval Research Logistics*, vol. 42, no. 6, pp. 949–966, 1995.
- [21] Cheng, T.C.E., Z.L. Chen and C.-L. Li, "Parallel-Machine Scheduling with Controllable Processing Times," *IIE Transactions*, vol. 28, no. 2, pp. 177–180, 1996.
- [22] Lee, C.-Y. and C.-L. Li, "On the Fixed Interval Due-Date Scheduling Problem," *Discrete Applied Mathematics*, vol. 68, nos. 1–2, pp. 101–117, 1996.
- [23] Cheng, T.C.E., Z.-L. Chen and C.-L. Li, "Single-Machine Scheduling with Trade-Off Between Number of Tardy Jobs and Resource Allocation," *Operations Research Letters*, vol. 19, no. 5, pp. 237–242, 1996.
- [24] Li, C.-L. and C.-Y. Lee, "Scheduling with Agreeable Release Times and Due Dates on a Batch Processing Machine," *European Journal of Operational Research*, vol. 96, no. 3, pp. 564–569, 1997.
- [25] Eynan, A. and C.-L. Li, "Lot-Splitting Decisions and Learning Effects," *IIE Transactions*, vol. 29, no. 2, pp. 139–146, 1997.
- [26] Li, C.-L., S.J. Erlebacher and D.H. Kropp, "Investment in Setup Cost, Lead-Time, and Demand Predictability Improvement in the EOQ Model," *Production and Operations Management*, vol. 6, no. 4, pp. 341–352, 1997.

- [27] Cheng, T.C.E., Z.-L. Chen, C.-L. Li and B.M.-T. Lin, "Scheduling to Minimize the Total Compression and Late Costs," *Naval Research Logistics*, vol. 45, no. 1, pp. 67–82, 1998.
- [28] Cai, X., C.-Y. Lee and C.-L. Li, "Minimizing Total Completion Time in Two-Processor Task Systems with Prespecified Processor Allocations," *Naval Research Logistics*, vol. 45, no. 2, pp. 231–242, 1998.
- [29] Li, C.-L., X. Cai and C.-Y. Lee, "Scheduling with Multiple-Job-on-One-Processor Pattern," *IIE Transactions*, vol. 30, no. 5, pp. 433–445, 1998.
- [30] Li, C.-L. and T.C.E. Cheng, "Due-Date Determination with Resequencing," *IIE Transactions*, vol. 31, no. 2, pp. 183–188, 1999.
- [31] Li, C.-L. and P. Kouvelis, "Flexible and Risk-Sharing Supply Contracts Under Price Uncertainty," *Management Science*, vol. 45, no. 10, pp. 1378–1398, 1999.
- [32] Bish, E.K., T.-Y. Leong, C.-L. Li, J.W.C. Ng and D. Simchi-Levi, "Analysis of a New Vehicle Scheduling and Location Problem," *Naval Research Logistics*, vol. 48, no. 5, pp. 363–385, 2001.
- [33] Wan, G., B.P.-C. Yen and C.-L. Li, "Single Machine Scheduling to Minimize Total Compression Plus Weighted Flow Cost Is NP-hard," *Information Processing Letters*, vol. 79, no. 6, pp. 273–280, 2001.
- [34] Xiao, W.-Q. and C.-L. Li, "Approximation Algorithms for Common Due Date Assignment and Job Scheduling on Parallel Machines," *IIE Transactions*, vol. 34, no. 5, pp. 467–477, 2002.
- [35] Cheung, R.K., C.-L. Li and W. Lin, "Interblock Crane Deployment in Container Terminals," *Transportation Science*, vol. 36, no. 1, pp. 79–93, 2002.
- [36] Guan, Y., W.-Q. Xiao, R.K. Cheung and C.-L. Li, "A Multiprocessor Task Scheduling Model for Berth Allocation: Heuristic and Worst-Case Analysis," *Operations Research Letters*, vol. 30, no. 5, pp. 343–350, 2002.
- [37] Li, C.-L., "Comments on Pang, K.W., Murty, K.G., Joneja, A. and Leung, C.C. (2002) Tool Path Optimization in Layered Manufacturing. *IIE Transactions*, 34(4), 335–347," *IIE Transactions*, vol. 35, no. 1, pp. 87–88, 2003.
- [38] Liu, J., C.-L. Li and C.-Y. Chan, "Mixed Truck Delivery Systems with Both Hub-and-Spoke and Direct Shipment," *Transportation Research Part E: Logistics and Transportation Review*, vol. 39, no. 4, pp. 325–339, 2003.
- [39] Li, C.-L. and G.L. Vairaktarakis, "Loading and Unloading Operations in Container Terminals," *IIE Transactions*, vol. 36, no. 4, pp. 287–297, 2004.
- [40] Li, C.-L. and W.-Q. Xiao, "Lot Streaming with Supplier-Manufacturer Coordination," *Naval Research Logistics*, vol. 51, no. 4, pp. 522–542, 2004.

- [41] Caglar, D., C.-L. Li and D. Simchi-Levi, “Two-Echelon Spare Parts Inventory System Subject to a Service Constraint,” *IIE Transactions*, vol. 36, no. 7, pp. 655–666, 2004.
- [42] Li, C.-L., V.N. Hsu and W.-Q. Xiao, “Dynamic Lot Sizing with Batch Ordering and Truckload Discounts,” *Operations Research*, vol. 52, no. 4, pp. 639–654, 2004.
- [43] Hsu, V.N., C.-L. Li and W.-Q. Xiao, “Dynamic Lot Size Problems with One-Way Product Substitution,” *IIE Transactions*, vol. 37, no. 3, pp. 201–215, 2005.
- [44] Li, C.-L., G. Vairaktarakis and C.-Y. Lee, “Machine Scheduling with Deliveries to Multiple Customer Locations,” *European Journal of Operational Research*, vol. 164, no. 1, pp. 39–51, 2005.
- [45] Li, C.-L. and G. Wan, “Improved Algorithm for Maximizing Service of Carousel Storage,” *Computers & Operations Research*, vol. 32, no. 8, pp. 2147–2150, 2005.
- [46] Li, C.-L. and J. Ou, “Machine Scheduling with Pickup and Delivery,” *Naval Research Logistics*, vol. 52, no. 7, pp. 617–630, 2005.
- [47] Li, C.-L. and Z.-L. Chen, “Bin-Packing Problem with Concave Costs of Bin Utilization,” *Naval Research Logistics*, vol. 53, no. 4, pp. 298–308, 2006.
- [48] Li, C.-L., “Scheduling Unit-Length Jobs with Machine Eligibility Restrictions,” *European Journal of Operational Research*, vol. 174, no. 2, pp. 1325–1328, 2006.
- [49] Li, C.-L. and G. Vairaktarakis, “Coordinating Production and Distribution of Jobs with Bundling Operations,” *IIE Transactions*, vol. 39, no. 2, pp. 203–215, 2007.
- [50] Li, C.-L. and J. Ou, “Coordinated Scheduling of Customer Orders with Decentralized Machine Locations,” *IIE Transactions*, vol. 39, no. 9, pp. 899–909, 2007.
- [51] Chen, X., C.-L. Li, B.-D. Rhee and D. Simchi-Levi, “The Impact of Manufacturer Rebates on Supply Chain Profits,” *Naval Research Logistics*, vol. 54, no. 6, pp. 667–680, 2007.
- [52] Li, C.-L., “Quantifying Supply Chain Ineffectiveness Under Uncoordinated Pricing Decisions,” *Operations Research Letters*, vol. 36, no. 1, pp. 83–88, 2008.
- [53] Ou, J., J.Y.-T. Leung and C.-L. Li, “Scheduling Parallel Machines with Inclusive Processing Set Restrictions,” *Naval Research Logistics*, vol. 55, no. 4, pp. 328–338, 2008.
- [54] Li, C.-L., G. Mosheiov and U. Yovel, “An Efficient Algorithm for Minimizing Earliness, Tardiness, and Due-Date Costs for Equal-Sized Jobs,” *Computers & Operations Research*, vol. 35, no. 11, pp. 3612–3619, 2008.
- [55] Cheung, B.K.-S., K.L. Choy, C.-L. Li, W. Shi and J. Tang, “Dynamic Routing Model and Solution Methods for Fleet Management with Mobile Technologies,” *International Journal of Production Economics*, vol. 113, no. 2, pp. 694–705, 2008.

- [56] Leung, J.Y.-T. and C.-L. Li, “An Asymptotic Approximation Scheme for the Concave Cost Bin Packing Problem,” *European Journal of Operational Research*, vol. 191, no. 2, pp. 581–585, 2008.
- [57] Chen, Z.-L. and C.-L. Li, “Scheduling with Subcontracting Options,” *IIE Transactions*, vol. 40, no. 12, pp. 1171–1184, 2008.
- [58] Li, C.-L., “Viewpoint: A Note on Unrelated Parallel Machine Scheduling with Time-Dependent Processing Times,” *Journal of the Operational Research Society*, vol. 59, no. 12, pp. 1696–1697, 2008.
- [59] Leung, J.Y.-T. and C.-L. Li, “Scheduling with Processing Set Restrictions: A Survey,” *International Journal of Production Economics*, vol. 116, no. 2, pp. 251–262, 2008.
- [60] Li, C.-L., “A New Solution Method for the Finite-Horizon Discrete-Time EOQ Problem,” *European Journal of Operational Research*, vol. 197, no. 1, pp. 412–414, 2009.
- [61] Halman, N., C.-L. Li and D. Simchi-Levi, “Fully Polynomial-Time Approximation Schemes for Time-Cost Tradeoff Problems in Series-Parallel Project Networks,” *Operations Research Letters*, vol. 37, no. 4, pp. 239–244, 2009.
- [62] Li, C.-L. and X. Wang, “Scheduling Parallel Machines with Inclusive Processing Set Restrictions and Job Release Times,” *European Journal of Operational Research*, vol. 200, no. 3, pp. 702–710, 2010.
- [63] Ou, J., V.N. Hsu and C.-L. Li, “Scheduling Truck Arrivals at an Air Cargo Terminal,” *Production and Operations Management*, vol. 19, no. 1, pp. 83–97, 2010.
- [64] Xu, Z., L. Xu and C.-L. Li, “Approximation Results for Min-Max Path Cover Problems in Vehicle Routing,” *Naval Research Logistics*, vol. 57, no. 8, pp. 728–748, 2010.
- [65] Ngai, E.W.T., C.-L. Li, T.C.E. Cheng, Y.H.V. Lun, K.-H. Lai, J. Cao and M.C.M. Lee, “Design and Development of an Intelligent Context-aware Decision Support System for Real-time Monitoring of Container Terminal Operations,” *International Journal of Production Research*, vol. 49, no. 12, pp. 3501–3526, 2011.
- [66] Pang, K.-W., Z. Xu and C.-L. Li, “Ship Routing Problem with Berthing Time Clash Avoidance Constraints,” *International Journal of Production Economics*, vol. 131, no. 2, pp. 752–762, 2011.
- [67] Li, C.-L. and K.-W. Pang, “An Integrated Model for Ship Routing and Berth Allocation,” *International Journal of Shipping and Transport Logistics*, vol. 3, no. 3, pp. 245–260, 2011.
- [68] Kellerer, H., J.Y.-T. Leung and C.-L. Li, “Multiple Subset Sum with Inclusive Assignment Set Restrictions,” *Naval Research Logistics*, vol. 58, no. 6, pp. 546–563, 2011.

- [69] Xu, D., C.-L. Li and J.Y.-T. Leung, “Berth Allocation with Time-Dependent Physical Limitations on Vessels,” *European Journal of Operational Research*, vol. 216, no. 1, pp. 47–56, 2012.
- [70] Li, C.-L., J. Ou and V.N. Hsu, “Dynamic Lot Sizing with All-Units Discount and Resales,” *Naval Research Logistics*, vol. 59, nos. 3–4, pp. 230–243, 2012.
- [71] Xu, D., C.-L. Li and Q. Han, “A Note on Parallel-Machine Due-Window Assignment,” *Journal of the Operational Research Society*, vol. 63, no. 6, pp. 821–825, 2012.
- [72] Halman, N., D. Klabjan, C.-L. Li, J. Orlin and D. Simchi-Levi, “Fully Polynomial Time Approximation Schemes for Stochastic Dynamic Programs,” *SIAM Journal on Discrete Mathematics*, vol. 28, no. 4, pp. 1725–1796, 2014.
- [73] Li, C.-L., “Improved Algorithms for Single-Machine Common Due Window Assignment and Scheduling with Batch Deliveries,” *Theoretical Computer Science*, vol. 570, pp. 30–39, 2015.
- [74] Li, C.-L. and Q. Li, “Scheduling Jobs with Release Dates, Equal Processing Times, and Inclusive Processing Set Restrictions,” *Journal of the Operational Research Society*, vol. 66, no. 3, pp. 516–523, 2015.
- [75] de Matta, R.E., V.N. Hsu and C.-L. Li, “Coordinated Production and Delivery for an Exporter,” *IIE Transactions*, vol. 47, no. 4, pp. 373–391, 2015.
- [76] Hall, N.G., J.Y.-T. Leung and C.-L. Li, “The Effects of Multitasking on Operations Scheduling,” *Production and Operations Management*, vol. 24, no. 8, pp. 1248–1265, 2015.
- [77] Li, C.-L. and K. Lee, “A Note on Scheduling Jobs with Equal Processing Times and Inclusive Processing Set Restrictions,” *Journal of the Operational Research Society*, vol. 67, no. 1, pp. 83–86, 2016.
- [78] Leung, J.Y.-T. and C.-L. Li, “Scheduling with Processing Set Restrictions: A Literature Update,” *International Journal of Production Economics*, vol. 175, pp. 1–11, 2016.
- [79] Li, C.-L. and Q. Li, “Polynomial-Time Solvability of Dynamic Lot Size Problems,” *Asia-Pacific Journal of Operational Research*, vol. 33, no. 3, 1650018 (20 pages), 2016.
- [80] Hall, N.G., J.Y.-T. Leung and C.-L. Li, “Multitasking via Alternate and Shared Processing: Algorithms and Complexity,” *Discrete Applied Mathematics*, vol. 208, pp. 41–58, 2016.
- [81] Ou, J., X. Zhong and C.-L. Li, “Faster Algorithms for Single Machine Scheduling with Release Dates and Rejection,” *Information Processing Letters*, vol. 116, no. 8, pp. 503–507, 2016.

- [82] Ding, Y., S. Jia, T. Gu and C.-L. Li, “SGICT Builds an Optimization-Based System for Daily Berth Planning,” *Interfaces*, vol. 46, no. 4, pp. 281–296, 2016.
- [83] Li, Q., P. Guo, C.-L. Li and J.-S. Song, “Equilibrium Joining Strategies and Optimal Control of a Make-to-Stock Queue,” *Production and Operations Management*, vol. 25, no. 9, pp. 1513–1527, 2016.
- [84] Li, C.-L. and W. Zhong, “Task Scheduling with Progress Control,” *IIE Transactions*, vol. 50, no. 1, pp. 54–61, 2018.
- [85] Xu, X., C.-L. Li and Z. Xu, “Integrated Train Timetabling and Locomotive Assignment,” *Transportation Research Part B: Methodological*, vol. 117, pp. 573–593, 2018.
- [86] Li, C.-L. and N.G. Hall, “Work Package Sizing and Project Performance,” *Operations Research*, vol. 67, no. 1, pp. 123–142, 2019.
- [87] Jia, S., C.-L. Li and Z. Xu, “Managing Navigation Channel Traffic and Anchorage Area Utilization of a Container Port,” *Transportation Science*, vol. 53, no. 3, pp. 728–745, 2019.
- [88] Li, C.-L. and F. Li, “Rescheduling Production and Outbound Deliveries When Transportation Service Is Disrupted,” *European Journal of Operational Research*, vol. 286, no. 1, pp. 138–148, 2020.
- [89] Jia, S., C.-L. Li and Z. Xu, “A Simulation Optimization Method for Deep-Sea Vessel Berth Planning and Feeder Arrival Scheduling at a Container Port,” *Transportation Research Part B: Methodological*, vol. 142, pp. 174–196, 2020.
- [90] Xu, X., C.-L. Li and Z. Xu, “Train Timetabling with Stop-Skipping, Passenger Flow, and Platform Choice Considerations,” *Transportation Research Part B: Methodological*, vol. 150, pp. 52–74, 2021.

RESEARCH GRANTS

Aug 2016 – Jul 2019	General Research Fund, HK\$695,854, Hong Kong Research Grants Council (Principal Investigator)
Jan 2016 – Dec 2020	Theme-based Research Scheme, HK\$31,000,000, Hong Kong Research Grants Council (Co-Principal Investigator; joint project with K.L. Tsui and other Co-PIs/Co-Is)
Oct 2013 – Oct 2016	General Research Fund, HK\$645,500, Hong Kong Research Grants Council (Principal Investigator)
Jan 2010 – Dec 2012	General Research Fund, HK\$612,000, Hong Kong Research Grants Council (Principal Investigator)

- Sep 2008 – Aug 2010 General Research Fund (formerly known as Competitive Earmarked Research Grant), HK\$358,660, Hong Kong Research Grants Council (Principal Investigator)
- Jan 2007 – Dec 2008 Competitive Earmarked Research Grant, HK\$356,000, Hong Kong Research Grants Council (Principal Investigator)
- Jan 2007 – Dec 2008 Competitive Earmarked Research Grant, HK\$356,000, Hong Kong Research Grants Council (Co-Investigator; joint project with K.W. Pang)
- Jan 2006 – Dec 2007 Competitive Earmarked Research Grant, HK\$359,224, Hong Kong Research Grants Council (Principal Investigator; joint project with X. Chen and D. Simchi-Levi)
- Sep 2004 – Aug 2007 Competitive Earmarked Research Grant, HK\$506,447, Hong Kong Research Grants Council (Co-Investigator; joint project with C. Oguz and P. Hansen; funded and returned to the Hong Kong Research Grants Council due to PI's departure from the university)
- Sep 2004 – Aug 2006 Competitive Earmarked Research Grant, HK\$337,631, Hong Kong Research Grants Council (Principal Investigator)
- Sep 2002 – Aug 2005 Competitive Earmarked Research Grant, HK\$611,404, Hong Kong Research Grants Council (Principal Investigator)
- Sep 2001 – Aug 2003 Competitive Earmarked Research Grant, HK\$387,248, Hong Kong Research Grants Council (Principal Investigator)
- Sep 2000 – Aug 2002 Competitive Earmarked Research Grant, HK\$437,817, Hong Kong Research Grants Council (Co-Investigator; joint project with B.P.-C. Yen)

EDITORIAL WORK

Associate Editor, *Naval Research Logistics* (November 2004 – present)

Senior Editor, *Production and Operations Management* (October 2003 – July 2011)

Associate Editor, *IIE Transactions* (July 1994 – June 2011)

Co-guest Editor, “Special Issue on Shipping, Ports and Airports,” a special issue of *International Journal of Shipping and Transport Logistics* (volume 6, number 4, 2014; co-edited with Xiaowen Fu)

Co-guest Editor, “Greater China Region,” a special issue of *Transportation Journal* (volume 48, number 3, 2009; co-edited with S.I. Ivan Su)

Co-editor, 21 世纪两岸三地现代物流发展研究(2004 年), China Machine Press, Beijing, 2004 (co-edited with Binglian Liu and S.I. Ivan Su)

Guest Editor, “Scheduling: Theory and Applications,” a special issue of *Mathematical and Computer Modelling* (volume 20, number 2, 1994)

CONSULTING WORK

- Aug 2011 – Feb 2013 The Hong Kong Society for Rehabilitation, Hong Kong (joint project with C.T. Ng, Y.H.V. Lun, X. Sun, C.L.J. Wan, P.C.C. Wong, and T.L. Yip)
- Mar 2011 – Apr 2011 The Hong Kong Jockey Club, Hong Kong
- Feb 2008 – Mar 2008 Customs and Excise Department, The Government of the Hong Kong Special Administrative Region, Hong Kong (joint project with Y.H.V. Lun)
- Jul 2001 – Aug 2002 The Hong Kong Society for Rehabilitation, Hong Kong (joint project with R.K. Cheung and J.K.O. Ho)
- Mar 1999 – Mar 1999 Peabody Group, St. Louis, Missouri, U.S.A.
- Aug 1997 – May 1998 Coopers and Lybrand, St. Louis, Missouri, U.S.A.

MAJOR ADMINISTRATIVE DUTIES

Chairman, Academic Appeals Committee, The Hong Kong Polytechnic University (May 2017 – present)

Chairman, Selection Panel on Tender for Provision of Service for Operation of Campus Bookshop (April 2020 – June 2020)

Chairman, Search Committee for the Recruitment of Head of Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University (January 2015 – October 2015)

Chairman, Faculty Research Committee, Faculty of Business, The Hong Kong Polytechnic University (September 2010 – June 2015)

Alternate Chairman, Academic Appeals Committee, The Hong Kong Polytechnic University (Semester 2, 2011–12; Semester 2, 2012–13; Semester 2, 2013–14; Summer Term, 2013–14; Semester 1, 2014–15)

Head of Department, Department of Logistics and Maritime Studies (and previously Department of Logistics), The Hong Kong Polytechnic University (January 2003 – October 2004; July 2011 – June 2014)

Chairman, Departmental Management Committee, Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University (January 2003 – October 2004; July 2011 – June 2014)

Chairman, Departmental Staffing Committee, Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University (January 2003 – October 2004; July 2011 – June 2014)

Chairman, Departmental Undergraduate Programme Committee, Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University (September 2011 – August 2013)

Acting Director, C.Y. Tung International Centre for Maritime Studies, The Hong Kong Polytechnic University (July 2011 – August 2013)

Chairman, Review Panel on Self-plagiarism, The Hong Kong Polytechnic University (August 2012 – November 2012; February 2013 – July 2013)

Chairman of Validation Panel, MSc in Operational Research and Risk Analysis, The Hong Kong Polytechnic University (January 2013 – March 2013)

Director, Logistics Research Centre, The Hong Kong Polytechnic University (March 2006 – September 2011)

Chairman, Departmental Research Committee, Department of Logistics and Maritime Studies, The Hong Kong Polytechnic University (January 2003 – June 2006; September 2008 – August 2009)

Stream Coordinator, Area of Strategic Development: Logistics and Maritime Studies Stream, The Hong Kong Polytechnic University (July 2003 – June 2007)

Chairman of Validation Panel, MSc/PgD/PgC in Engineering Business Management and MSc/PgD/PgC in Manufacturing Systems Engineering, The Hong Kong Polytechnic University (April 2005 – July 2005)

Master's Programs Coordinator, Department of Industrial Engineering and Engineering Management, The Hong Kong University of Science and Technology (January 2000 – December 2002)

Director, HKUST Logistics and Supply Chain Forum, The Hong Kong University of Science and Technology (April 2000 – October 2002)

OTHER PROFESSIONAL ACTIVITIES

Honorary Advisor, Hong Kong Logistics Management Staff Association (July 2013 – present)

Track Chair, Scheduling and Logistics Track, *POMS 28th Annual Conference*, Seattle, U.S.A., May 5–8, 2017

Member of Tripartite Taskforce on Manpower Training, Hong Kong Maritime Industry Council (March 2014 – March 2016)

Co-chair, *Workshop on Supply Chain Analytics—Honoring David Simchi-Levi on the Occasion of His 60th Birthday*, University of California, Berkeley, U.S.A., October 15–16, 2015

Conference Chair, *International Forum on Shipping, Ports and Airports 2013*, Hong Kong, June 3–5, 2013

Track Co-chair, Scheduling and Logistics Track, *POMS 23rd Annual Conference*, Chicago, U.S.A., April 20–23, 2012

Council Member, Hong Kong Logistics Association (January 2005 – June 2011)

Treasurer, The Hong Kong Chapter of the Production and Operations Management Society (March 2009 – March 2011)

Co-organizer, *International Conference on Greater China Supply Chain and Logistics 2010*, Chengdu, China, November 20–23, 2010 (jointly organized with Southwest Jiaotong University, Nankai University, Soochow University, and Southeast University)

Conference Chair, *The First POMS-HK International Conference*, Hong Kong, December 30, 2009

Co-organizer, *International Conference on Greater China Supply Chain and Logistics 2008*, Taipei, Taiwan, November 29–30, 2008 (jointly organized with Soochow University, Nankai University, and Southeast University)

Chairman of PhD Program Advisory Committee, Department of Logistics Engineering, University of the Thai Chamber of Commerce (2007)

Member of Business Studies and Economics Panel, Research Assessment Exercise (RAE) 2006, University Grants Committee (UGC), Hong Kong

Co-organizer, *Greater China Supply Chain and Logistics Forum and Academic Conference 2005*, Nanjing, China, October 29–30, 2005 (jointly organized with Southeast University, Nankai University, and Soochow University)

Co-organizer, *Greater China Logistics Forum and Academic Conference 2004*, Taipei, Taiwan, December 18–19, 2004 (jointly organized with Soochow University, Nankai University, and Shanghai Jiao Tong University)

Member of Human Resource Task Force, Hong Kong Maritime Industry Council (February 2004 – October 2004)

Co-organizer, *Greater China Logistics Forum 2003*, Hong Kong, December 7–8, 2003 (jointly organized with Nankai University and Soochow University)

Member of Engineering Panel, Research Grants Council (RGC), Hong Kong (October 2000 – June 2003)

Working Group Member on Human Resource Infrastructure, Committee on Logistics Service Development, Hong Kong Port and Maritime Board (November 2000 – November 2001)

Co-organizer, *Conference on “Logistics Hubs and Outsourcing Centres: New Functions of Asian Port Cities,”* Hong Kong, November 24, 2001 (jointly organized with the French Centre for Research on Contemporary China)

Co-organizer, *Global Supply Chain Management Forum—Asian Supply Chain Trends and Opportunities*, Hong Kong, October 16–17, 2000 (jointly organized with the Stanford Global Supply Chain Management Forum and the European Supply Chain Forum)