

1. GENERAL INFORMATION

Professor
 Department of Logistics
 Hong Kong Polytechnic University
 Hung Hom, Hong Kong
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Education

Ph.D.	University of Toronto Toronto, Canada Department of Industrial Engineering in Operations Research (in Stochastic Models)	1990
M. Eng.	Huazhong University of Science and Technology (HUST) Wuhan, China Department of Management Engineering in Engineering Management (in Logistics and Distribution)	1983
B. Eng.	Huazhong Institute of Technology (later renamed HUST) Wuhan, China Department of Shipbuilding Engineering in Internal Combustion Engine Design	1980

Professional Experience

- Professor	Department of Logistics and Maritime Studies Hong Kong Polytechnic University	06/2006 –
- Associate Professor /Assistant Professor	Department of IEEM, Hong Kong University of Science and Technology	02/1993 – 05/2006
- Research Associate /Lecturer	Department of Industrial Engineering University of Toronto	04/1991 – 01/1992
- Lecturer	College of Economic Management, HUST	01/1990 – 04/1991
- Assistant Lecturer	College of Economic Management, HUST	03/1983 – 10/1983
- Assistant Engineer	Hudong Shipbuilding Yard, Shanghai	01/1980 – 09/1980

2 RESEARCH**Research Interests**

Logistics and supply chain management, risk analysis, stochastic models, port operations and economics, healthcare operations, complex networks

2.1 Research Funding

CERG Funding as PI

Current Projects

1. PI/PM (Principle Investigator/Project Manager), NSFC/RGC Joint Research Scheme N_PolyU513/08 (2009-2011) HK\$693,100 *Collaborative Regional Container Flow Management: Models and Systems Development*
2. PI/PM, RGC Competitive Research Grant PolyU5226/07E (2008-2009) HK\$391,591, *Pricing Schemes and Channel Strategies for Information System Services*
3. PI/PM, RGC Competitive Research Grant PolyU6170/05E (2006-2008) HK\$538,836, *Service and production system design in a price and waiting time-sensitive market with honor contract and strategic customers.*
4. Co-I, RGC Competitive Earmarked Research Grant PolyU5238/07E HK\$396,000, 2008-2009, *Bertrand Competition of Container Ports in Growing Market with Lumpy Investment.* PI, Luo Meifeng, Co-I TL Yip.

Completed Projects

5. PI/PM, RGC Competitive Research Grant PolyU6145/04E (2005-2006) HK\$337,631, *Design, execution, and performance analysis of two-period supply contracts for short lifecycle products.*
6. PI/PM, RGC Competitive Earmarked Research Grant PolyU6133/02E (2002-2006) HK\$611,404 *Competitive Supply Strategies over the Product Life-Cycle: Two-Firm Non-Cooperative Game Models* (one Co-I).
7. PI/PM, RGC Competitive Earmarked Research Grant HKUST6198/01E (2001-2004) HK\$762,762, *Modeling and Optimization for Configure-to-Order System in E-Business Environment.*
8. PI/PM, NSFC/RGC Joint Research Scheme N_HKUST023/00 (2000-2003), HK\$800,000, *Construction and Control of Virtual Manufacturing Organizations* (Two Co-I's).
9. PI/PM, RGC Competitive Earmarked Research Grant HKUST6089/00E (2000-2003) HK\$821,817, *Design and Control of Multi-Site Service Systems with Customer Balking* (Two Co-I's).
10. PI/PM, RGC Competitive Earmarked Research Grant HKUST6075/99E, \$405,000, 1999 – 2001, *Bottleneck Analysis and Operational Capacity Deployment in Multi-stage Assembly Systems* (completed).
11. PI/PM, RGC Competitive Earmarked Research Grant HK\$760,000, 1997-2000, *Studies of Networks of Inventory-Queues* (One Co-I).

Other Competitive External Funding as PI

12. PI/PM Health Service Research Committee Grant HK\$56,000, 1993-95, *An Outpatient Appointment Scheme in a Random Environment* (One Co-I).

13. PI/PM, RGC France/Hong Kong Joint Research Scheme F-HK19/04T (2005-2006) HK\$62,000 *Development of a simulation-optimization approach for supply chain design and optimization* (one Co-I, Original 2005, renewed 2006).

Internal Competitive Funding as PI

14. PI/PM, PolyU Niche Area Grant (Jan 2008 – Dec 2012) HK \$1,150,000, Regional Container Cargo Equilibrium Analysis and How Hong Kong Prospers with a Sub-40% Market Share
15. PI/PM, PolyU Niche Area Grant (Jan 2008 – Dec 2012) HK \$1,400,000, Regional Multi-mode Container Flow Management: Models and Policy Development
16. PI/PM, PolyU Internal Competitive Grant (2007-2008) HK \$197364, *Increasing Profitability for Container Carriers via Optimal Sea Cargo Mix*
17. PI, PolyU Joint Supervision Scheme (2007-2008) HK\$150,000, *The Role of Electronic Marketplace in Supply Chain Management*
18. PI, PolyU Post Doctoral Fellowship (Jiejian Feng) (2007-2008) HK\$746,000, *Order-based Backorders in Multi-item Inventory Systems*
19. PI/PM, RGC Direct Allocation Grant at HKUST, HK\$125,000, 1996-98, *Discrete-Time Inventory Models*.

Industry projects

20. Co-PI/PM, GPE Industrial Research Project HK\$70,000, 1994-95, (with Y-W. Wan, J. Liu, and J. Mize).
21. Co-PI, SAP Collaboration Grant, HK\$50,000, 1999-2000 (with Mitchell Tseng).
22. Co-PI, Shanghai Industries, HK\$100,000, 1996-1998 (with Mitchell Tseng). CI, Lucent Technologies Industrial Research Contract, HK\$305,100, 1996-1997, (PI/PM, M. Tseng).

2.2 Refereed Journal Papers

1. Feng, J, Liu, L., and Liu, X., An Optimal policy for dynamic joint price and leadtime quotation, *Operations Research, Conditionally Accepted, 2010*
2. Luo, M., Liu, L., Gao, F., Bertrand Competition with Capacity Expansion: Case Study of Container Port Competition Between Hong Kong and Shenzhen, China, *Journal of the Transportation Research Board, Accepted, 2010*
3. Feng, J., Liu, L., and Parlar, M., An Efficient Dynamic Optimization Method for Sequential Identification of Group-Testable Items, *IIE Transactions, Accepted, 2010*
4. Lian, Z., Liu, L., and Zhu, X., Rolling-Horizon Replenishment – Policies and Performance, *Naval Research Logistics, Accepted, 2010*

5. Luo, M., Fan, L., Liu, L., A dynamic-economic model for container freight market, *Maritime Policy and Management*, Accepted, **2009**
6. Feng, J., Liu, L., Wan, Y-W. (**2010**), Order-based backorders in multi-item inventory systems, *Operations Research Letters* 38, 27-32
7. Lian, Z. and Liu, L. (**2008**), A tandem network with MAP inputs, *Operations Research Letters* 36, 189-195
8. Liu, L., Miyazawa, M., and Zhao, Y. (**2008**), Geometric decay in level-expanding QBD models, *Annals of Operations Research* 160, 83-98
9. Xiang, A, Liu, L., and Luo, Q. (**2008**), VPeers: a peer-to-peer service discovery framework for virtual manufacturing organizations, *Computer in Industry* 59, 411-419
10. Lian, Z., Liu, L., and Liu, X. (**2008**), Discriminatory Processor Sharing Queues and the DREB Method, *Stochastic Models* 24, 19-40
11. Li, Q., Liu, L., and Shang, W. (**2008**), Regularly varying asymptotic analysis for a fluid model driven by an $M/G/1$ queue, *Performance Evaluation* 65, 227-240
12. Liu, L., Parlar, M. and Zhu, X., (**2007**), Pricing and leadtime decisions in a decentralized supply chain, *Management Science* 53, 713–725
13. Shi, D., Zhu, X., and Liu, L., (**2007**), Clustering coefficient of growing networks, *Physica A*, 381, 515-524.
14. Liu, L., Shang, W., and Wu, S. (**2007**), Dynamic competitive newsvendors with service sensitive demands, *Manufacturing, Service, and Operations Management* 9, 84-93
15. Shi, D., Liu, L., Zhu, S. X., and Zhou. H. (**2006**), Degree distributions of evolving networks, *Europhysics Letters* 76 (4), 731-737
16. Li, H. and Liu, L. (**2006**), Production control in a two-stage system, *European Journal of Operational Research* 174, 887-904
17. Shang, W., Li, Q., and Liu, L. (**2006**), The regularly varying tail of the queue length in an $M/G/1$ retrial queue, *Queueing Systems* 52, 193-198
18. Du, L., Hu, Q., and Liu, L. (**2006**), A profit sharing scheme for a two-firm joint venture, *European Journal of Operational Research* 170, 277-292
19. Lian, Z., Liu, L., and Neuts, M. (**2005**), Discrete-time models for common lifetime inventory systems, *Mathematics of Operations Research* 30, 718-732
20. Shi, D., Guo, J., and Liu, L. (**2005**), On the SPH-distribution class, *Acta Mathematica Scientia* 25B (2), 201-214
21. Li, Q., Lian, Z., Liu, L. (**2005**), An RG-factorization approach for a BMAP/M/1 generalized processor-sharing queue, *Stochastic Models* 21, 507-530
22. Shi, D., Chen, Q., and Liu, L. (**2005**), An Markov chain-based numerical method for calculating network degree distributions, *Physical Review E* 71, 036140 (1-9)
23. Haque, L., Zhao, Y. Q., and Liu, L. (**2005**), Sufficient conditions for a geometric tail in a QBD process with countable level and phase, *Stochastic Models* 21 (no. 1), 77-99
24. Yuan, X. M. and Liu, L. (**2005**), Performance analysis of an unreliable assembly system with finite buffers, *European Journal of Operational Research* 161, 854-871

25. Li, Q. and Liu, L. (2004), An algorithmic approach for sensitivity analysis of perturbed quasi-birth-and-death processes, *Queueing Systems* 48, 356-397
26. Bai, L., Fralix, B., Liu, L., and Shang, W. (2004), Inter-departure times in base-stock inventory-queues, *Queueing Systems* 47, 345-361
27. Liu, L. and Lu, Y. (2004), Dynamic traffic control for web-server networks, *Computer Networks*, 45/4, 523-536
28. Liu, L., Liu, X., and Yao, D. D. (2004), Analysis and optimization of multi-stage inventory-queues, *Management Science* 50, 365-380
29. Liu, L., Yuan, X.M., and Liu, J. (2004), Operational capacity allocation for unreliable module-based assembly systems, *European Journal of Operational Research* 155, 134-153.
30. Chao, X., Liu, L., and Zheng, S. (2003), Resource allocation in multi-site service systems with inter-site customer flow, *Management Science* 49, 1739-1752
31. Ma, S., Wang, W., and Liu, L. (2002), Commonality and Postponement in multi-stage assembly systems, *European Journal of Operational Research* 142, 523-538
32. Lian, Z. and Liu, L. (2001), Continuous review perishable inventory systems: models and heuristics, *IIE Transactions* 33, 809-822
33. Liu, L. and Yuan, X.M. (2001), Throughput, flow time, and service level in an unreliable assembly system, *European Journal of Operational Research* 135, 602-615
34. Liu, L. and Yuan, X.M. (2000), Coordinated replenishments in inventory systems with correlated demands, *European Journal of Operational Research* 123, 490-503
35. Liu, L. and Lian, Z. (1999), (s, S) continuous review models for inventory with fixed lifetimes, *Operations Research* 47, 150-158
36. Liu, X., Bensaou, B, Tsang, D.H.K., and Liu, L. (1999), Tight upper bounds for cell loss probabilities and required bandwidth estimation in ATM multiplexers, *European Trans. On Communication* 10 (January) No. 1
37. Lian, Z. and Liu, L. (1999), A discrete-time model for perishable inventory systems, *Annals of Operations Research* 87, 103-116
38. Liu, L. and Yang, T. (1999), An (s, S) random lifetime inventory model with a positive lead time, *European Journal of Operational Research* 113, 52-63
39. Liu, L. and Shi, D. H. (1999), Inventory systems of finite storage lifetimes, *Naval Research Logistics* 46, 39-56
40. Liu, L. and Liu, X. (1998). Dynamic and static job allocation for multi-server systems, *IIE Transactions* 30, 845-854
41. Liu, L. and Liu, X. (1998), Block appointment systems for outpatient clinics, *Journal of Operational Research Society* 49, 1254-1259.
42. Liu, L. and Cheung, K. L. (1997), Service constrained inventory models with random lifetimes and lead times, *Journal of the Operational Research Society* 48, 1022-1028.
43. Liu, L. and Shi, D. (1996), Busy period in $GI^x / G / \infty$, *Journal of Applied Probability* 33, 815-829

44. Shi, D. and Liu, L. (1996), Availability analysis of a two-unit series system with a priority shut-off rule, *Naval Research Logistics* 43, 1009-1024
45. Liu, L., Kashyap, B.R.K., and Templeton, J.G.C. (1996), Queue lengths in the $GI^X / M^R / \infty$ service system, *Queueing Systems* 22, 129-144.
46. Liu, L. and Templeton, J.G.C. (1995), Departures in $GR^{X_n} / G_n / \infty$, *Queueing Systems* 19, 399-419
47. Liu, L. (1995), System sizes in infinite server queues with constant service times, *Opsearch* 32, 3-16
48. Liu, L. and Templeton, J.G.C. (1993), Autocorrelations in infinite server batch arrival queues, *Queueing Systems* 13, 571-595.
49. Liu, L., (1992), (Q, S) continuous review inventory models with limited repair, *J. of HUST* 20, 77-82. (in Chinese)
50. Liu, L., and Templeton, J.G.C. (1991), The $GR^{X_n} / G_n / \infty$ system: system size, *Queueing Systems* 8, 323-356
51. Liu, L., Kashyap, B.R.K. and Templeton, J.G.C. (1990), On the $GI^X / G / \infty$ system, *Journal of Applied Probability* 27, 671-683
52. Liu, L. (1990), (s, S) continuous review models for inventory with random lifetimes, *Operations Research Letters* 9, 161-167
53. Liu, L., Kashyap, B.R.K., and Templeton, J.G.C. (1987), The service system $M / M^R / \infty$ with impatient customers, *Queueing Systems* 2, 362-372.

2.3 Submitted Journal Papers

54. Shang, W. and Liu, L., Promised delivery time and capacity games in time competition, *under 3rd review, Management Science*
55. Feng, J., Liu, L., Wan, Y-W, The irreducibility of a class of multi-dimensional Markov chains, *under 2nd review, Naval Research Logistics*
56. Xing, W., Wang, S., Liu, L., and Feng, G., Impact of B2B Electronic Market on Reseller Performance and Strategies
57. Xing, W., Liu, L., Wang, S., More than a second channel? supply and procurement strategies in the presence of a B2B e-market
58. Du, L., Hu, Q., and Liu, L., Bargaining for merger and acquisition based on phase profits
59. Xu, H., Zhu, S. X., and Liu, L., Supply chain integration with inventory and time tradeoff
60. Li, L., Jiang, L., and Liu, L., Service and price competitions facing pragmatic customers

2.4 Refereed Book Chapters and Proceedings

61. Luo, M., Fan, L., and Liu, L., A dynamic-economic model for container freight market, International Forum on Shipping, Ports and Airports (IFSPA), Hong Kong, May 2009.
62. Luo, M., Liu, L., and Gao, F., Port competition using capacity expansion and pricing, International Forum on Shipping, Ports and Airports (IFSPA), Hong Kong, May 2009.

63. Chao, X., Liu, L., Zheng, S., Stochastic network models and optimization of a hospital system, in *Stochastic Models and Optimization*, D. D. Yao, H. Zhang, and X. Y. Zhou (Eds), Springer-Verlag, New York, 363-393, **2003**.
64. Shi, D., Guo, J. and Liu, L., SPH-distributions and the rectangle-iterative algorithm, in *Matrix-Analytic Methods in Stochastic Models, Lecture Notes in Pure and Applied Mathematics*, Ed. S.R. Chakravarthy and A.S. Alfa, Marcel Dekker, New York, **1996**.

2.5 Doctoral Students

1. Zhaotong LIAN, August 1997 (Macau U, faculty)
2. Wei WANG, November 1998 (co-supervisor, M. Tseng)
3. Xiaoming LIU, January 1999 (co-supervisor, D. Yao) (Macau U, faculty)
4. Siu Wa NG, August 2001 (China Merchant International, Senior management)
5. Weixin SHANG, May 2006 (Fudan University, faculty)
6. Xiang ZHU, May 2006 (University of Groningen, Netherlands, Faculty)
7. Anbo XIANG, August 2006 (Development and Research Center, State Council, China)
8. Jiejian FENG, June 2006

2.6 M. Phil Students

1. Yip-Ming CHEUNG, June 1995; 2. Liwei BAI, August 2000; 3. Yumao LU, August 2001;
4. Lai Piu AU, Jess, August 2002; 5. Hua DING, August 2005

2.7 Keynote speech and invited seminars (since 2000)

1. Analysis and control of distributed supply networks, Department of Industrial Engineering, Dalhousie University, Halifax, Canada, 2000.
2. Strategic decisions, E-commerce, and operations research, School of Management, Huazhong University of Science and Technology, Wuhan, China, April 2001.
3. Resources allocation in service systems, Department of Industrial and System Engineering and Operations Research Society of Singapore Joint Seminar, National University of Singapore, June 2001.
4. A study of distributed supply networks, Department of Mechanical and Industrial Engineering, University of Toronto, Toronto, Canada, October, 2001.
5. Models and optimization for a hospital system, School of Management, Fudan University, October, 2001.
6. Pricing and leadtime decisions in a supply chain with an assemble-to-order supplier and a retailer, INRIA, Metz, France, September 2002.
7. Pricing and leadtime decisions in a supply chain with an assemble-to-order supplier and a retailer, Rotman School of Management, University of Toronto, December, 2002.
8. Applied probability issues in supply networks, School of Mathematics and Statistics, Colleton University, Ottawa, Canada, December 2002.

9. Supply chains and applied probability, School of Management, Shanghai University, Feb. 2003.
10. Coordinating price and leadtime Decisions, School of Management, HUST, Dec. 2003.
11. Replenishment strategy under a rolling horizon contract, Department of Automation, HUST, Dec. 2003.
12. Coordinating price and leadtime decisions, School of Business, National University of Singapore, May 2004.
13. Lead time and price decisions in a decentralized supply chain, Invited Talk, Supply Chain Workshop, INRIA, Metz, France, June 2004.
14. Dynamic competitive newsvendors with service-sensitive demands, School of Management, Huazhong University of Science and Technology, July 2004.
15. Dynamic and stationary competition in product availability, DeGroote School of Business, McMaster University, Canada, March 2005.
16. Decisions and inefficiencies in pull supply chains, School of Management, Shanghai University, April 2005.
17. Logistics and supply chains: the strategic values of operations, Zhong Shan University,

2.8 Conference proceedings/presentations:

1. Liu, L., *Batch arrival infinite server queues with constant service times*, Proceedings of the First Symposium on Queueing Theory in China, 47-53, Shanghai, September 1993.
2. Tsang, D.H.K., Liu, L. and Chu, H.W., *Buffer dimensioning of variable bit rate video with priorities*, Proceedings of IEEE Visual Signal Processing and Communications (Refereed), 221-214, Melbourne, 1993.
3. Chu, H.W., Tsang, D.H.K., and Liu, L., *Optimal bandwidth allocation of multiple VBR video sources with priorities*, Proceedings of IEEE International Symposium on Speech, Image Processing & Neural Networks (Refereed), 365-368, Hong Kong, April 1994.
4. Lian, Z., Neuts, M. F., and Liu, L., *A discrete-time model for perishable inventory systems*, Proceedings of the International Conference on Management Science and Economic Development of China, 340-348, Hong Kong, July 1996.
5. Liu, L. and Liu, X., *A flexible block appointment system for outpatient clinics with multiple random arriving doctors*, INFORMS Atlanta, November 1996.
6. Liu, L. and Lian, Z., *An (S, s) continuous review model for perishable inventory*, The 14th Triennial Conference, IFORS, Vancouver, Canada, July 1996.
7. Yuan, X. and Liu, L., *Performance analysis of assembly systems with unreliable machines*, CORS/INFORMS Montreal, April 1998.
8. Liu, X., Liu, L., and Yao, D. D., *Decomposition and optimal inventory allocation in networks of inventory-queues*, CORS/INFORMS Montreal, April 1998.
9. Liu, X., Liu, L., and Yao, D. D., *Some results for networks of inventory-queues*, INFORMS Seattle, October 1998.
10. Liu, L., Yuan, X., and Liu, J, *Capacity allocation in unreliable module-based assembly systems with finite buffers*, INFORMS Seattle, October 1998.

11. Ng, S. W. and Liu, L., Competing through replenishment policy when future demands depend on service level, INFORMS Seattle, October 1998.
12. Wang, W., Tseng, M., and Liu, L., Effects of component commonality on inventory and service level in a multi-stage assembly system, INFORMS Seattle, October 1998.
13. Liu, L., Liu, X., Yao, D., Allocating inventory in distributed production-inventory systems, INFORS Conference, Beijing, August 1999.
14. Bai, L., Liu, L., and Liu, X., Inter-departure times in M/G/1 Inventory queues, Chinese Conference in Operations Research, Changsha, China, June 2000.
15. Liu, L., Production switching in serial systems, International workshop on operations research, Beijing, May 2001.
16. Chao, X., Liu, L., and Zheng, S., Resources allocation in multi-site service systems, International Workshop on Operations Research: Stochastic Models and Optimization, Hong Kong, May 2001.
17. Zheng, S., Chao, X., and Liu, L., Control of a multi-class and multi-server system: individual and social optimization, International Workshop on Operations Research: Stochastic Models and Optimization, Hong Kong, May 2001.
18. Liu, L., Chao, X., and Zheng, S., Stochastic network models and optimization of a hospital system, 44th Annual Conference of the Canadian Operational Research Society (CORS), Toronto, Canada, June 2002.
19. Liu, L. and Zhu X., Pricing and leadtime decisions in a supply chain with an assemble-to-order supplier and a retailer, International Conference on Global Supply Chain Management, Beijing, August 2002.
20. Cheng, T. and Liu, L., A service location mechanism for virtual manufacturing organization. Proceedings of the 1st CIRP(UK) Seminar on Digital Enterprise Technology (Refereed), University of Durham, September 2002, pp: 297-302.
21. Liu, L., Shang, W., and Ng, S., Multi-period competitive newsvendor model with service-sensitive demands, 2002 INFORMS Annual Meeting, San Jose, November 2002.
22. Zhu, X. and Liu, L., analysis of supply contracts with unlimited flexibility, INFORMS Annual Meeting, San Jose, November 2002.
23. Liu, L. and Shang, W., regular varying tails of fluid model driven by M/G/1 queues, INFORMS Annual Meeting 2003, Atlanta, GA, US, October 2003.
24. Shang, W., Li, Q., and Liu, L., Regularly varying asymptotic analysis on an M/G/1 retrial queue, 12th INFORMS Applied Probability Conference, Beijing, June 2004.
25. Zhu, X. and Liu, L., Leadtime and inventory decisions in ATO systems, 12th INFORMS Applied Probability Conference, Beijing, June 2004.
26. Li, Q. and Liu, L., Performance derivatives of Markov chains with single or multiple dimensional perturbation, 12th INFORMS Applied Probability Conference, Beijing, June 2004.
27. Liu, X. and Liu, L., Dynamic leasttime quotation for assemble-to-order supplier, 12th INFORMS Applied Probability Conference, Beijing, June 2004.
28. Liu, L., Ng, S., and Shang, W., Dynamic Competitive Newsvendors with Service-Sensitive Demands, MSOM Conference 2004, Netherlands, June 2004.

29. Liu, L., Shang, W., and Zhu, X., Pricing, promised delivery time, and capacity decisions for a service system, International Conference on Service Systems and Service Management, Beijing, July 2005.
30. Shang, W. and Liu, L., On selecting the right order quantities with availability-sensitive customers, MSOM Conference 2005, Northwestern University, Evanston, IL, US, June 27-28, 2005.
31. Shi, D., Chen, Q., and Liu, L., Markov chain-based numerical method for degree distributions of growing networks, 13th INFORMS Applied Probability Society Conference, Ottawa, July 2005.

2.9 Industrial reports

1. Liu, L., Liu, J., Wan, Y-W, and Mize, J., MRPII System Requirements Design: A Report. Submitted to GPE Industrial Holding LTD, September 1994

2.10 Examination committee member for the following Ph.D. Students

1. Hairong CHEN, Spring 2003 (HKUST)
2. Xudong XIE, Spring 2002 (Division of Systems & Engineering Management, NTU, Singapore, External examiner)
3. Lianje SHU, May 2002 (HKUST)
4. Hongyan HUANG, January 8, 2002 (Chinese University of Hong Kong, External examiner)
5. Dimitrios MERETAKIS, December 2001 (Computer Science, HKUST)
6. Hua XIANG, August 2001 (Chinese University of Hong Kong, External examiner)
7. Xianyuan WANG, Fall 1999 (HKUST)
8. Hengqing YE, November 1999 (HKUST)
9. Jinli GUO, 1996, (Shanghai University of Science and Technology, External examiner)
10. G. H. TALPUR, 1994 (Shanghai University of Science and Technology, External examiner)
11. D. Ebebezer, 1996 (University of Madras, India, External examiner)
12. Lijun MA, 2007 (Chinese University of Hong Kong, External examiner)
13. Fei GAO, 2007 (Chinese University of Hong Kong, External examiner)
14. Shaolong TANG, 2007 (LGT, PolyU, Chair, BoE)
15. Hong LIN, 2007 (Huanzhong University of Science and Technology, External examiner)
16. Hang JI, 2007 (Huanzhong University of Science and Technology, External examiner)
17. Fei GAO, 2007 (CUHK)
18. Lijun MA, 2007 (CUHK)
19. Jun SHAN, 2009 (HKUST)

3. TEACHING

3.1 Courses Taught at PolyU

Postgraduate

- Supply Chain Management
- Proposed and organized the revision of the PhD and MPhil course requirements of and new course syllabus
- Proposed new course syllabus for the DBM program

3.2 Courses Taught at HKUST

Undergraduate

- Operations Research II (Stochastic Models)
- Integrated Production Systems
- Financial Engineering
- Service Management and Operations Analysis
- Introduction to Industrial Engineering and Model Logistics (for non-industrial engineering students)
- Introduction to Operations Research (for year-2 civil engineering students)

Postgraduate

- Stochastic Models in Operations Research
- Reliability and Maintenance
- Advanced Production Systems
- Special Topics in Systems Engineering
- Financial Engineering
- Operations Management
- Enterprise Resource Planning (2-day short course)

3.3 Final Year Projects

- 1993/1995 Chu Chi Ming and Siu Ming Fai, “Production Planning and Control Simulator (PPCS)”
- 1994/1996 Ching Ming Kwan, Chong Tsz Kit, and Kan Yee Yin, “Inventory System Development For A Small Company”
- 1995/1997 Chong To, Cua, Siu On, and Ng Yuk Ming, “Comparing Different Production Control Methods with Simulation”
- 1997/1999 Chung Siu Cheung, Wan Ka Ho, and Yeung Chung Yiu, “Fulfillment Management for Multi-Stage Assembly Systems: A Simulation Study”
- 1997/1999 Wong Wai Kin, “The Work Design for an Assembly Operation”

- 1998/2000 Hui Tik Kai, Che Siu Ki, and Ke CHing Kai, “Development of a Virtual Tutorial School”
- 2000/2002 Wan Chung Yuen and Lin To Todd, “Using XML and XML Parser to Form Structural Information of Manufacturing Enterprises and its Resource of the Virtual Manufacturing Organization”
- 2001/2003 Yee Lai Man, Lee Ka Fu, and Lee Wai Ching, “Study of Minibus Services of Route 11 and 11M” (Co-advisor: Dr. Kaijie Zhu)
- 2001/2003 Chan Pui Yan, Lee Ka Lai, and Hui Chi Ho, “Resort Services for Hong Kong Disneyland - Internal Vehicle and Driver Pool”
- 2002/2004 Lee Mau San, Leung Hok Yi, and Leung Ka Ki, A study logistics operations with IT Applications in Guangdong
- 2002/2004 Cheng Ka Ho, Leung Nga Kwan, and Ng Sze Man, “Service Benchmarking of Local Industries”

3.4 M. Sc. Students (graduated with projects)

1. Luximon AMEERSING, August 1996
2. Thomson Tak Kwon AU, August 1997
3. Iris WONG, August 1997
4. Wing Kwan, August 2001
5. Hui ZHANG, February 2002
6. Clive Lam, August 2005

4 SERVICES

4.1 Membership in department, school and university committees at HKUST

- *Departmental UG coordinator from Feb. 1993 to Dec. 1993.*
Represented the department in all School and University UG related activities in 1993. I prepared the IE UG curriculum and presented in the meetings and argued for the support of the school UG committee.
- *Departmental PG coordinator from Feb. 1993 to Jan. 1997*
Initiated and established collaborations with three leading mainland universities which contributed to the successful PG student recruitment in the first three years of the department.
Responsible for the administration of the Department’s PG programs and students from September 1993 to August 1995.
After the formation of the departmental PG committee, I was still responsible for TA assignment, budget allocation, representing the department in the school committee, and all the associated daily administration from September 1995 to Feb. 1997
- *PG committee member and PhD program director from Feb. 1997 to May 2006t*

- *Member of the Senate Library Committee from March 1994 to January 1996*
- *Member of the School DAG Allocation Committee, 2 years from September 1998*

4.2 Membership in department, school and university committees at PolyU

- Chair, Department Research Committee, June 2006 to August 2008
- Member, Faculty Research Committee, June 2006 to August 2008
- Member, University Senate, 2007 to present
- Associate Department Head for Research, September 2008 to present

4.2 Editorial/referee service for journals

- Referee for the following journals: *Management Science, Operations Research, Journal of Applied Probability, Mathematics of Operations Research, Manufacturing and Service Operations Management, Queueing Systems, International Journal of Production Economics, IIE Transactions, European Journal of Operations Research, Production and Operations Management, Naval Research Logistics, Opsearch, Chinese Journal of Industrial Engineering, and Annals of Operations Research*
- Guest Editor for *Annals of Operations Research, 1997/98.*
- Editorial Board Member, *IIE Transactions*, 1999- present.

4.3 Membership in organizing committee of int'l conferences

- Member, Organizing Committee of the *International Conference on Management Science and Economic Development of China*, July 1996 (responsible for the conference program and schedule).
- Co-Chairman, Organizing Committee of the 1st *International Conference on Industrial Engineering, Shenzhen*, July 1994.
- Co-Chairman, Organizing Committee of the 1st *International Conference on Industrial Engineering, Hong Kong*, August 1997.
- Organizer and chair of the international Workshop on Queueing Models, Hong Kong June 1995.
- Organized inter-departmental seminar series with invited external speakers in Summer 1996, Winter 1996, Winter 1997.
- Organized the departmental seminar series (about 14 seminars) in Spring 2005.