

CURRICULUM VITAE

Chengxuan Cao (曹成铨)

August 29, 2004

Address:

The Logistics Institute - Asia Pacific (TLI-AP),
National University of Singapore,
Blk AS6, Level 5, 11 Law Link, Singapore 119260
Ph: (65) 68741136 Fax: (65) 67753391
Web: www.tliap.nus.edu.sg
E-mail: tliccx@nus.edu.sg cxcao@bj163.com

Personal Details :

Nationality: Chinese
Date of Birth: Dec 1963
Permanent Resident: Singapore
Sex: Male
Marital Status: Married

Education Background:

Ph.D., Operations Research & Control, June 1997, Institute of Applied
Mathematics, the Chinese Academy of Sciences, Beijing, China (Thesis
Supervisor: Prof. Guang-Hui Hsu).
M.S., Probability & Mathematical Statistics, July 1993, East China
Normal University, Shanghai, China (Thesis Supervisor: Prof. Sheng-Wu He).
B.S., Mathematics, July 1985, Northeast China Normal University,
Changchun, Jilin, China.

Research Interest:

Sea Cargo Logistics
Supply Chain Management
Stochastic Networks and Algorithms
Stochastic Programming for Sea Cargo shipping problems

Computer Skills:

Programming language: C/C++, PASCAL, FORTRAN
Operating System: Solaris/Linux, Windows Serial, DOS

Database: MS Access, FoxPro, MS SQL Server

Software: MS Office, MS Project, ILOG, Matlab, Mathematica, Adobe Acrobat

Occupational Experience:

- Jan. 2003—Present, Research Fellow, The Logistics Institute - Asia Pacific (TLI-AP),
"A collaboration between the National University of
Singapore and the Georgia Institute of Technology", Singapore
- Mar. 2001—Mar. 2002, Post-Doctoral Fellow, Department of Industrial
Engineering, Seoul National University, R. Korea.
- Jul. 1999—Jun. 2003, Associate professor, School of Management, University of
Science and Technology Beijing, P.R. China.
- Jul. 1997—Jul. 1999, Lecturer, School of Management, University of Science and
Technology Beijing, P.R. China
- Dec.1990 — Sept.1994, Lecturer, Department of Mathematics, Jiamusi Teachers'
College, Heilongjiang, P.R. China.
- July 1985—Sept.1990, Teaching Assistant, Department of Mathematics, Jiamusi
Teachers' College, Heilongjiang, P.R. China.

Teaching Courses:

- Sep. 2000—Jan. 2001, Computer Aided Management(for graduate students),
Management Information Systems (for undergraduate
students).
- Sep. 1999—Jul. 2000, Quantitative Analysis for Management Decision (for graduate
students), Principle and Application of MRPII (for under-
graduate students), Stochastic Models and Methods in
Operations Research (for undergraduate students),
Introduction to Management Information Systems (for
undergraduate students), Computer-Aided Manufacturing (for
MBA students).
- Sep. 1997—Jul. 1998, Quantitative Analysis for Management Decision (for graduate
students), Operations Research (for undergraduate students),
Computer Skills in Management (for MBA students), Discrete
Mathematics (for undergraduate students).
- Sep. 1997—Jul. 1998, Operations Research (for MBA students), PASCAL
Programming (for undergraduate students), Principle and
Solution of Management Information Systems (for graduate
students), FoxPro for Windows (for MBA students).

Research Project:

- Aug. 2004—present, Software Focused Products and Service Supply Chain, IMSS
Pilot Project of A*STAR

Jan. 2003—present,	Supply Chain Network Project, Project between NUS, Georgia Tech and A*STAR
Mar. 2001—Mar. 2002,	Design of SCM system (Research Grant of Institute of Computer Science Korea)
Dec. 1999—Dec. 2000,	BPR Theory and Its Application, the Research Foundation of Ministry of Education, PRC
Jun. 1999—Nov. 1999,	Performance evaluation of Call Center in Chinese Bank (Research Grant of China Everbright Computer Development INC.)
Jul. 1998 — Dec. 1999,	Stochastic Networks and Its Application (the Research Foundation of Ministry of Metallurgical Industry).
Jan. 1998—Dec. 1999,	Product Form Solutions of Queueing Networks (Research Grant of USTB)
Sep. 1994—Jul. 1996,	Asymptotic Methods in Stochastic systems, the Natural Science Foundation of China

Languages:

English: Fluency in reading, writing and speaking

Korean: Fluency in reading, writing and speaking

Mandarin: Native language

Selected Publications:

- 1) Chengxuan CAO, James Soo Keng ANG, and Heng-Qing YE, Model and Algorithm for the Operational Level Service Route Planning Problem, International Conference on Service Systems and Service Management(ICSSSM2004), pp.96-101, July 19-21, 2004, Beijing, China.
- 2) Chengxuan CAO, James Soo Keng ANG, and Heng-Qing YE, Two-stage stochastic mixed integer programming model for multi-period sea cargo mix problem, invited presentation at 12th INFORMS/APS Conference, June 23-25 2004, Beijing, China.
- 3) James Soo Keng ANG, Chengxuan CAO, and Hengqing YE, Model and algorithm for sea cargo mix problem, The Third International Conference on Electronic Business, 544-546, 2003.
- 4) Cheng-Xuan Cao and Guang-Hui Hsu, Poisson traffic processes in pure jump Markov process and generalized networks, Journal of Systems Science and complexity, 2001, Vol.14, No.4, 438-446.
- 5) K.T. Kim, E.S. Sim, C.X. Cao and J.W. Park, Knowledge acquisition using neural network and simulator, The Pacific Asia Conference on Intelligent Systems 2001, 25-29.
- 6) T.Y. Song, S.W. Jung, C.X. Cao and J.W. Park, Design for hybrid system of integration kanban with MRPII, The Seoul International Simulation Conference 2001, 280-287.
- 7) Guang-Hui Hsu and Cheng-Xuan Cao, Busy periods for a matched queueing network, OR Transactions, 2000, Vol.4, No.1, 22-32.
- 8) Cheng-Xuan Cao and Jun-Shan Gao, Asymptotic Poisson Traffic Processes in Queueing Systems, OR Transactions, 1999, Vol.3, No.4, 1-9.
- 9) Cheng-Xuan Cao and Yong-Quan Pan, A matched queueing network and its algorithms,

- Logistics and Material Handling, 1999, Vol.4, No.1, 30-33. (in Chinese)
- 10) Cheng-Xuan Cao, Asymptotic Poisson Departure from G/G/1, *Mathematica Applicata*, 1999, Vol.12, No.1, 121-126.
 - 11) Cheng-Xuan Cao, A product form generalized network model, *Journal of USTB*, 1999, Vol.21, Special Issue, 88-91. (In Chinese)
 - 12) Cheng-Xuan Cao and Zhong-Yuan Li, Performance evaluation of Call Center in Chinese Bank. Research Report, September 1999. (In Chinese)
 - 13) Cheng-Xuan Cao, A queueing model with batch services and catastrophes, *Proceedings of the 5th Academic Conference USTB & Sonchon National University*, June 1998, 124-129.
 - 14) Cheng-Xuan Cao and Guang-Hui Hsu, Poisson traffic processes in RGSMP and generalized networks, *OR Transactions*, Vol.1, No.1, 1997, 29-40.
 - 15) Nai-Shuo Tian, Da-Qing Zhang and Cheng-Xuan Cao, M/G/1 queue with controllable vacations and optimization of vacation policy. *Acta Math. Appl. Sinica*, 7(1991), 363-373.
 - 16) Nai-Shuo Tian, Da-Qing Zhang and Cheng-Xuan Cao, The GI/M/1 queue with exponential vacations, *Queueing Systems*, 5 (1989), 331-344.

References:

- Prof. G.H. Hsu, Institute of Applied Mathematics, Chinese academy of Sciences, Beijing, China.
Tel: 86-10-6256 4575.
E-mail: ghhsu@sina.com
- Prof. J.W. Park, Department of Industrial Engineering, Seoul National University, Seoul 151-742, KOREA.
Tel: 82-2- 880-7179.
E-mail: autofact@snu.ac.kr
- Dr. X.M. Yuan, Singapore Institute of Manufacturing Technology
E-mail: xmyuan@SIMTech.a-star.edu.sg
Tel: 65-6793 8407.