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Department of Decision Sciences, NUS Business School

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Education and Appointment

1996	Massachusetts Institute of Technology, Cambridge, MA Ph.D. in Operations Research
1990	National University of Singapore, Bachelor of Science (Hon) in Mathematics
2007-2001-2007	Professor, NUS Business School, NUS Associate Professor, NUS Business School, NUS
2004-2005	Professor of Decision Sciences, SKK Graduate School of Business (South Korea)
2001-2002	Johnson and Johnson Associate Professor of Supply Chain Management, NUS
1998-2000	Assistant Professor, NUS Business School, NUS
1996-1998	Lecturer, NUS Business School, NUS
2011 July-	Head of Department, Department of Decision Sciences, NUS Business School
2010 Jan- 2011 May	Acting Deputy Dean, NUS Business School
2008 July- 2009 Dec	Vice-Dean (Research), NUS Business School
2008 Jan- 2009 Dec	Director (PhD Program), NUS Business School

Professional Experience

Area Editor (Operations and Supply Chains), Operations Research, 2012 -

Associate Editor Operations Research, 2007- 2011

Associate Editor Management Science, 2004-

Associate Editor IIE Transactions (Service Operations Engineering), 2009 – 2011

Associate Editor Journal of Flexible Services and Manufacturing, 2009-2011

Associate Editor Networks, 2001–2007.

Associate Editor Naval Research Logistics Quarterly, 2003-2007

Associate Editor IEEE Transactions in Automation Science and Engineering, 2003-2006

Senior Editor Journal of Flexible Services and Manufacturing, 2007-2009.

Faculty Advisory Committee, Faculty of Business, HKPU, Sep 2012-Aug 2015.
复旦“管理学杰出贡献奖”专家委员会&国际论坛, Shanghai, 2009 & 2012
Keynote Speaker IEEE-ICSSSM12, Shanghai, July 2012.
Plenary Keynote Committee, 2012 ATTTTS, Hong Kong, June, 2012
Keynote Speaker in International Conference on Greater China Supply Chain and Logistics, Chengdu, Nov, 2010.
Keynote Speaker in SAS Forum Singapore, Sept, 2010
Hong Kong PhD Fellowship Selection Panel, 2010, 2011, 2012
Keynote Speaker, Service Science and Automation Workshop, CASE IEEE, August, 2009

Impact Prize Committee, INFORMS, 2014
SCM Student Paper Prize Committee, POMS, 2009
MSOM Student Paper Prize Committee, INFORMS, 2009
MSOM Student Paper Prize Committee, INFORMS, 2008
Program Committee Member, IFORS, 2008
Program Committee Member, TLOG, 2007
Chairman, Nicholson Prize Committee, INFORMS, 2007
Nicholson Prize Committee, INFORMS, 2006

Courses Taught

Asia-Pacific Executive MBA Program (Chinese) - Supply Chain Management
NUS MBA (English) - Supply Chain Management
NUS BBA (English) - Business Analytics (Year 2), Service Operations (Year 3)
PhD Module in Process Flexibility (Belgium, CORE)
NUS MSc(BA) – Deterministic Models in OR

Research Publications (Representative)

[Transportation Analytics]

- [Models for Effective Deployment and Redistribution of Bicycles within Public Bicycle-Sharing Systems](#) with Jia Shu, Mable Chou, Qizhang Liu and I-Lin Wang. **Operations Research**. Volume 61 Issue 6, November-December 2013, pp. 1346-135.
- [World Container Port Throughput Follows Lognormal Distribution](#), with Ding Ding. **Maritime Policy and Management**. Volume 37 Issue 4 July 2010 , pages 401 - 426

[Consumer Analytics]

- [On Theoretical and Empirical Aspects of Marginal Distribution Choice Models](#), with Vinit Kumar Mishra, Xiaobo Li, Karthik Natarajan and Dhanesh Padmanabhan. **Management Science**. Forthcoming.

[Lottery Games]

- Judgment Error in Lottery Play: When the Hot-Hand Meets the Gambler's Fallacy, with Qingxia Kong and Nicolas Lambert.
- [Benford's Law and Number Selection in Fixed-Odds Numbers Games](#), with M Chou, QX Kong, ZZ Wang and H Zheng. **Journal of Gambling Studies**, Pg 503-512, Volume 25, Number 4, December 2009.
- Teo C.P. and Leong S.M. [Managing Risk in a Four Digit Number Game](#). **SIAM Review**, Vol 44, No. 4, 601-615, 2002.

[Portfolio Selection]

- Portfolio Models for Multiple Benchmark Tracking, with Karthik Natarajan, Yunchao Xu and Zhichao Zheng

[Choice Optimization]

- [Persistency in Discrete Optimization under Data Uncertainty](#), with N. Karthik and D Bertsimas. **Mathematical Programming**. 108 (2-3): 251-274 JAN 2006.
- [Persistency Model and its applications in Choice Modeling](#), with N. Karthik, M. Song. **Management Science**. Volume 55, No. 3, pp. 453-469 (2009)

- [MIXED ZERO-ONE LINEAR PROGRAMS UNDER OBJECTIVE UNCERTAINTY: A COMPLETELY POSITIVE REPRESENTATION](#), with Zheng ZhiChao and Karthik Natarajan. **Operations Research**. Vol. 59, No. 3, pp. 713-728 (2011) .
- [Choice Prediction with Semi-definite Optimization when utilities are correlated](#), with Vinit Kumar Mishra, Karthik Natarajan and Hua Tao. **IEEE Automatic Control** (Regular paper). Vol 57 (10), 2450 - 2463, 2012.
- Distributionally Robust Mixed Integer Linear Programs: Persistency Models with Applications (with Li Xiaobo, Zheng Zhichao and Teo Chung-Piaw) **Invited Review. European Journal of Operational Research** Volume 233, Issue 3 Pages 459-473. (2013)
- Least Squares Quadratic Approximation to Stochastic Mixed Zero-One Linear Optimization Problem, with Karthik natarajan and Zhichao Zheng

[Material Management]

- Chan A.L., Muriel A., Shen ZJ, Simchi-Levi D. and Teo CP. [Effectiveness of Zero Inventory Policies for a one-warehouse multi-retailer problem with piecewise linear cost structures](#). **Management Science**. 48, Number 11, pp 1446-1460, 2002.
- Teo CP and Jia Shu. [Warehouse-retailer network design problem](#). **Operations Research**, Vol 52, No. 3, May 2004, pp. 396-408.
- Jia Shu, CP Teo and Max Shen. [Stochastic Transportation-Inventory Network Design Problem](#). **Operations Research**, Vol 53, No. 1, Jan 2005.

[Process Flexibility]

- [Design for Process Flexibility: Efficiency of the Long Chains and Sparse Structure](#), Mabel Chou, GBA Chua, CP Teo and H Zheng. **Operations Research**, Volume 58 (1), pp 43-58, 2010.
- [Process Flexibility Revisited – The Graph Expander and Its Applications](#), with Mabel Chou, GBA Chua and Huan Zheng. **Operations Research**. Sep/Oct 2011, Vol 59 no. 5 1090-1105

[Appointment Scheduling]

- [Scheduling Arrivals to a Stochastic Service Delivery System using Copositive Cones](#), with Qingxia Kong, Chung-Yee Lee and Zhichao Zheng. Volume 61 Issue 3, May-June 2013, pp. 711-726 , **Operations Research**.

[Stable Matching]

- Teo, C.P. and Jay Sethuraman. [Geometry of fractional stable matching and its applications](#), **Mathematics of Operations Research**, Vol 23, Number 4, 874-891, 1998.
- Teo, C.P., J.V. Sethuraman and W.P. Tan. [Gale-Shapley Stable Marriage Problem Revisited: Strategic Issues and Applications](#). **Management Science**, Sept 2001, Vol 47, No. 9, Pg 1252 – 1267
- Jay Sethuraman, CP Teo and LW Qian. [Many-To-One Stable Matching: Fairness and Geometry](#). **Mathematics of Operations Research**, Vol 31, No. 3, August 2006, pp. 581-596.

[Social Choice]

- J. Sethuraman, Teo CP and R. Vohra. [Integer Programming and Arrovian Social Welfare Function](#). **Mathematics of Operations Research**, Vol 28, No. 2, May 2003, pp. 309-326.
- Jay Sethuraman, CP Teo and R. Vohra. [Anonymous Monotonic Social Welfare Functions](#), **Journal of Economic Theory**, May 2006, Volume 128, Issue 1, Pg 232-254.

[Container Port]

- Moorthy, RL, Wee HG, Ng WC and Teo CP. [Cyclic Deadlock Prediction for Zone-Controlled AGV System](#). **International Journal of Production Economics**. 11 March 2003, Pages 309-324
- R. Moorthy and CP Teo. [Berth Management in Container Terminal: The Template Design Problem](#). **OR Spectrum (Special Issue in Container Logistics)** Vol 28, pp 495-518, 2006.

PhD Students

Shu Jia (SMA PhD. 2003) Distribution Network Design Optimization.

Professor in Southeast University (China).

Co-Supervisor: Prof Tom Magnanti (MIT)

Karthik Natarajan (SMA PhD 2004) Robust Optimization in Finance and Logistics

Associate Professor in SUTD (Singapore)

Co-supervisor: Prof Dimitris Bertsimas (MIT).

Huan Zheng (NUS PhD 2007) Sparse Process Flexibility Structure and Its Applications.

Associate Professor in Antai College, SJTU (China)

Co-supervisor: Dr. Mabel Chou (NUS)

Qi Fu (HKUST PhD, 2007) Portfolio Effect in Procurement Risk Management

Assistant Professor in Macau University (China).

Co-supervisor: Prof Lee Chung-Yee, IELM, HKUST.

Qingxia Kong (NUS PhD, 2012) PATTERN SEEKING AND SERVICE SYSTEM DESIGN DRIVEN BY FACT-BASED DECISION-MAKING

Assistant Professor in Universidad Adolfo Ibáñez (Chile).

Vinit Kumar Mishra (NUS PhD, 2012) Discrete Choice and Product Line Selection using Persistency Models

Research Fellow in University of Sydney School of Business.

Zheng Zhichao (NUS PhD, 2014) Persistency and Stein's Identity:

Applications in Stochastic Discrete Optimization Problems

Assistant Professor in Singapore Management University (Singapore)

Zhong Yuanguang (SCUT PhD, 2014) 带有资金与服务水平约束的供应链管理问题研究

Assistant Professor in South China University of Technology (China)

Co-supervisor: 周永务教授