
Meifeng LUO, Ph.D. in Economics
MSc. in Maritime Studies
MSc. in Computer Science
B.A. in Marine Science

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Nationality: Hong Kong



Associate Professor, Dept. Logistics and Maritime Studies, Faculty of Business, PolyU
Director, IMC-Frank Tsao Maritime Library and R&D Center
Associate Editor, *Maritime Policy & Management*

Employment History

- Associate Professor, The Hong Kong Polytechnic University, Hong Kong Jul. 2014-present
- Assistant Professor, The Hong Kong Polytechnic University, Hong Kong Jan. 2006 – Jun. 2014
- Research Fellow, University of Rhode Island (URI), U.S.A. July 2002 – Dec. 2005
- Research Assistant, URI, U.S.A. Sept. 1997 – June 2002
- Maritime Supervisor, East China Sea Branch, State Oceanic Administration, Shanghai, China Aug. 1984-Aug. 1997

Education

- Ph.D. Environmental & Natural Resource Economics, University of Rhode Island (URI), Rhode Island (RI), U.S.A., 2002
- M.Sc. Computer Science, URI, RI, U.S.A, 2002
- M.Sc. Maritime Administration & Environmental Protection. World Maritime University, Malmö, Sweden, 1996
- B.A. Marine Science, Tong Ji University, Shanghai, China, 1984

Teaching

PhD Subject: Maritime and Air Transportation Economics

MSc courses:

Shipping Economics and Markets; Port Economics; Maritime and Port Environment; Maritime Administration and Environment; Environmental Logistics

Undergraduate courses:

Port Economics and Application; Economics for Shipping

Research

Refereed Journal Publications

1. M. Luo, S. Shin, & YT. Chang (2017): Duration Analysis of Recurrent Ship Accidents. *Maritime Policy & Management*, Accepted.
2. L. Fan, M. Luo, Jingbo Yin (2017). “Dynamics and interactions between spot and forward freights in the dry bulk shipping market”, *Maritime Policy & Management*. 44(2):271-288.
3. **M. Luo** & J. Shin (2017). “Half-century research on maritime accidents: future directions”, *Accident Analysis and Prevention*. <http://dx.doi.org/10.1016/j.aap.2016.04.010>
4. J. Yang, **M. Luo** & A. Ji (2016). “Analyzing the spatial-temporal evolution of a gateway’s hinterland: A case study of Shanghai, China”. *Transportation Research Part E*. 95(2016): 355-367.
5. Y. Kou & **M. Luo** (2016). “Strategic capacity competition and overcapacity in shipping”. *Maritime Policy & Management*. 43(4):389-406.
6. Y. Gao, **M. Luo**, Guohua Zhou (2016). “Forecasting with Model Selection or Model Average: A case study for monthly container port throughput”. *Transportmetrica A: Transport Science*, 12(4):366-384.
7. Q. Liu, W. Wilson & M. Luo (2016). “The impact of Panama Canal expansion on the container shipping market: a cooperative game theory approach”. *Maritime Policy and Management*. 43(2):209-221

8. B. Dong, L. Zhu, K. Li, **M. Luo** (2015). "Acceptance of the international compensation regime for tanker oil pollution – And its implications for China", *Marine Policy*, 61:179-186
9. Kou Y. & **Luo, M.** (2015). "Modeling the relationship between ship price and freight rate along with structural changes" *Journal of Transport Economics and Policy*, 49(2):276-294
10. Kun Wang, Xiaowen Fu, **M. Luo**, (2015). "Modeling the Impacts of Emission Trading Scheme on International Shipping". *Transportation Research Part A. Vol. 77, July 2015, 35-49*
11. K.X. Li, J. Yin, M. Luo and J. Wang (2014). "Leading factors in job satisfaction of Chinese seafarers". *Int. J. Shipping and Transport Logistics*", 6(6):680-693
12. Kou, Y., Liu, L. & Luo, M. (2014). "Lead-lag relationship between new-building and second-hand ship prices", *Maritime Policy & Management*, 61(4): 303-327
13. Zhuang, W. , **Luo, M.** & Fu, X. (2014). "A Game Theory Analysis of Port Specialization—Implications to the Chinese Port Industry". *Maritime Policy & Management*. 41(3):268-287.
14. Fan, L. & **Luo, M.** & Wilson, W. W. (2014). "Pricing Joint Products in Liner Shipping," *International Journal of Shipping and Transport Logistics*. 6(4):371-386.
15. Dong, B.Y., Zhu L. & Luo M. (2014) "Combating Marine Pollution from Vessel: China's New Legislation", *The International Journal of Marine and Coastal Law*. 29(2014)158-172.
16. **Luo, M.**, Fan, L., & Wilson, W. W. (2014). "Firm Growth and Market Concentration in Ocean Liner Shipping," *Journal of Transport Economics & Policy*. 48(1):171-187
17. Fan, L., **Luo, M.** & Yin, J. (2014). "Flag Choice and PSC Inspection—A Simultaneous Model". *Transport Policy*. 35(2014):350-357. <http://dx.doi.org/10.1016/j.tranpol.2014.04.008>.
18. Fu, X. & Luo, M. (2014). "Editorial: Special issue on trade, supply chain activities and transport – Selected papers of the 2013 IFSPA Conference." DOI: 10.1016/j.tranpol.2014.04.005
19. Yang, J., Wu X. & Luo, M. (2014). "Regional economy, transportation infrastructure and container port system Evolution Process: A comparative Study of China and the U.S. in 1979-2010", *Economic Geography*. 34(2):80-85
20. Fan, L. & **Luo, M.** (2013). "Analyzing ship investment behavior in liner shipping". *Maritime Policy & Management*. 40(6):511-533
21. **Luo, M.** (2013). "Emission Reduction in International Shipping—the hidden side effects" *Maritime Policy & Management*. 40(7):694-708.
22. Li, K.X., Yin J. Luo M. & Wang J. (2013) "Leading factors in job satisfaction of Chinese Seafarers". *International Journal of Shipping & Transport Logistics*. Accepted.
23. **Luo, M.**, Fan, L., & Li, K. X. (2013). Flag choice behavior in the world merchant fleet. *Transportmetrica A: Transport Science*. 9(5):429-450
24. Luo, M. & Yip, T.L. (2013) "Editorial: Ports and Environment", *Maritime Policy & Management*, 40(5):401-403,
25. Li, K. X., **Luo, M.**, & Yang, J. (2012). Container port systems in China and the USA: a comparative study. *Maritime Policy & Management*. 39(5), 461-478
26. Qin, H., **Luo, M.**, Gao, X., & Lim, A. (2012). An algorithm for the freight allocation problem with all-units quantity-based discount. *OMEGA - the International Journal of Management Science*, 40(4), 415-423.
27. Yang, J., **Luo, M.**, & Wu, X. (2012). The evolution of the container port system in US. *Economic Geography*, 32(2), 94-100.
28. Chang, Y., Tongzon, J., **Luo, M.**, & Lee, P. T. (2012). Estimation of optimal handling capacity of a container port: An economic approach. *Transport Reviews*, 32 (2), 241-258.
29. **Luo, M.**, Liu, L., & Gao, F. (2012). Post-entry container port capacity Expansion. *Transportation Research B*, 46 (1), 120-138.
30. **Luo, M.** & Opaluch, J. (2011). Analyze the risks of biological invasion. *Stochastic Environmental Research and Risk Assessment*, 25 (3), 377-388.

31. **Luo, M.**, Liu, L., & Gao, F. (2010). Bertrand competition with capacity expansion – A case study for container port competition between Hong Kong and Shenzhen. *Transportation Research Record: Journal of Transportation Board* (2166), 74-81.
32. **Luo, M.**, Fan, L., & Liu, L. (2009). An econometric analysis for container shipping market. *Maritime Policy & Management*, 36 (6), 507-523.
33. Anderson, C. M., Chang, Y., Lee, T., & Luo, M. (2008). A Game-theoretic analysis of competition among container port hubs: The case of Busan and Shanghai. *Maritime Policy & Management*. 35(1), 5-26
34. Grigalunas, T., Trandafir, S., Luo, M., Opaluch, J., & Kwon, S.J. (2004). Port Development and the Environment: External Costs from Dredge Disposal and Air Pollution. *Journal of International Logistics and Trade*, 1 (2).
35. Luo, M. & Grigalunas, T. (2003). A Spatial Economic Multimodal Transportation Simulation Model for US Coastal Container Ports. *Maritime Economics & Logistics*, 5 (2), 158-178.
36. Grigalunas, T., Chang, Y.T., & Luo, M. (2003). Container Port Investment Appraisal and Risk Analysis: An Illustrative Case Study. *Transportation Research Record* (1782), 64-72.
37. Grigalunas, T., Opaluch, J., & Luo, M. (2001). Economic Issues in Dredging Windows: Framework, Model and Examples. *Journal of Dredging Engineering* (WEDA).
38. Grigalunas, T., Opaluch, J., Chang, Y., & Luo, M. (2001). Estimating Environmental Costs in Container Port Development. *Transportation Research Record* (1756).
39. Grigalunas, T., Opaluch, J., & Luo, M. (2001). Estimating the Cost to Fisheries from Dredge Disposal: Case Study of Providence, Rhode Island. *Ecological Economics*, 38 (1), 47-58.

Papers Under Review

1. Y. Kou & M. Luo (2015). “Market driven ship investment decision using ROA”, *Transportation Research Part A*. Under review.
2. X. Wu, M. Luo & Anming Zhang (2015): An empirical test of hub-spoke theory in liner shipping services calling Chinese ports, *Journal of Transport Economics and Policy*, under review.

Working papers:

1. X. Wu, M. Luo (2017): Modeling the port/cluster calling behavior in liner shipping
2. Luo, M., & J. Shin (2017): Lifespan of world merchant fleet: An empirical analysis.

Invited Talk

1. M. Luo (2015): Major factors of port-hinterland relationship: An empirical analysis. The 9th World Ocean Forum, October 20-22, Busan, Korea.
2. M. Luo (2015) “Analyzing the spatial-temporal evolution of a gateway’s hinterland: A case study of Shanghai, China.” October 23, 2015, Chung-Ang University, Seoul, Korea.
3. Luo, M. (2014). “Economics of alternative maritime fuel and economic measures”. Symposium on Evolution of Maritime Fuels, Ship Speed and Operational Efficiency. 21 July 2014, University of Southern California. California, USA.
4. Luo, M. (2014). “Promoting GSC Efficiency via Multimodal Facility Development: A Holistic View”. *APEC Workshop on Maximizing Energy Efficiency of Supply Chain Connectivity through Improving Rail-waterway Intermodal Container Transport in APEC Economies*. June 26-27 2014, Beijing, China.

Refereed Conference Papers

1. X. Wu & M. Luo (2016). “Will larger ships call more/fewer ports—An economic model on liners’ port call behavior”. 2016 Annual Conference of International Association of Maritime Economists, Hamburg, Germany.

2. J. Yang, M. Luo, & Abing Ji (2016), "Optimal subsidy to promote multimodal container transportation in the Belt and Road Initiative", LMS on OBOR, Hong Kong Polytechnic University, May10-11, 2016
3. M. Li, L. Zhang, & M. Luo (2016), "Analyzing the impact of Chinese Overseas Investment in OBOR on domestic inventories", LMS on OBOR, Hong Kong Polytechnic University, May10-11, 2016
4. M. Luo & J. Shin (2015). "A half-century research on maritime accident: the future trends", Sub-ALRT 2015, Soochou University, Taipei, Taiwan, 2015.
5. M. Luo & J. Shin (2015). "Recurrent shipping accidents: a statistical analysis", GPRA 21-22 May 2015. The Hong Kong Polytechnic University.
6. Luo, M. & Y. Kou (2014). "A duopoly game for capacity expansion in shipping". 2014 Annual Conference of International Association of Maritime Economists (IAME 2014), July 15-19, 2014. Norfolk, Virginia, USA.
7. Luo, M. & Y. Kou (2014). "A duopoly game for capacity expansion in shipping industry". 2014 International Forum for Shipping, Port and Airport. May 19-21, 2014, Hong Kong.
8. Y. Kou & Luo, M. (2013). "Modeling the relationship between ship price and freight rate along with structural changes". *2013 Annual Conference of International Association of Maritime Economists (IAME 2013)*, Marseille, July 3-6, 2013
9. Fan, L., Luo, M. & Yin, J. (2013). "Flag Choice and PSC Inspection—A Simultaneous Model". *2013 Annual Conference of International Association of Maritime Economists (IAME 2013)*, Marseille, July 3-6, 2013
10. Luo, M. (2013). "Emission Reduction in International Shipping—the hidden side effects" *The 40th Anniversary conference of MPM: Innovation and Future Direction to the Maritime Shipping*. June 21st-23rd, Chuang Ang University, Korea.
11. Zhuang, W. , Luo, M. & Fu, X. (2013). "Does Chinese port industry need more regulation? – A Game Theory Analysis of Port Specialization". *International Forum for Shipping, Port and Airport*. May 3-5, 2013, Hong Kong.
12. Fan, L., Luo, M. & Yin, J. (2013). "Flag Choice and PSC Inspection—A Simultaneous Model". *International Forum for Shipping, Port and Airport*. May 3-5, 2013, Hong Kong.
13. Wang, K., Fu, X. & Luo, M (2013). Investigation the impacts of Introducing Emission Trading Scheme to Shipping Industry. *International Forum for Shipping, Port and Airport. May 3-5, 2013, Hong Kong*.
14. Luo, M., Fan, L. & Wilson, W. (2012). Firm growth and market concentration in liner shipping. *The 2nd International Logistics Conferences*. Seoul, Korea, Sept. 10, 2012
15. Luo, M., & Fan, L. (2012). Revealed preference of containerships. *2012 Annual conference for International Association of Maritime Economists*. Taipei, Sept. 5-8, 2012
16. Luo, M., & Ren, S. (2012). A hybrid model for short-term prediction of times series forecasting monthly throughput for Hong Kong Port. *International Forum for Shipping, Port and Airport 2012*. Hong Kong, May 26-28, 2012.
17. Fan, L., Luo, M., & Wilson, W. W. (2011). Firm Growth and capacity evolution in the container market. *2011 International Conference on E-Business and E-Government (ICEE)*, Shanghai: doi: 10.1109/ICEBEG.2011.5882144.
18. Luo, M., Liu, L., & Gao, F. (2010). Bertrand competition with capacity expansion – A case study for container port competition between Hong Kong and Shenzhen. *Transportation Research Board Annual Meeting*. January 2010, Washington, D.C. USA.
19. Luo, M., Fan, L., & Liu, L. (2009). A dynamic-economic model for container freight market. *International Association of Maritime Economists (IAME) Annual Conference*. Copenhagen, Denmark. 24-26, June 2009
20. Luo, M., Liu, L., & Gao, F. (2009). Port competition using capacity expansion and pricing. *International Forum on Shipping, Ports and Airports (IFSPA)*.
21. Luo, M., Fan, L., & Liu, L. (2009). A dynamic-economic model for container freight market. *International Forum on Shipping, Ports and Airports (IFSPA)*.
22. Luo, M. & Opaluch, J. J. (2008). Analyze the risk of Biological Invasion: an agent based simulation model for introducing non-native oysters in Chesapeake Bay. *International Forum on Shipping, Ports and Airports (IFSPA)*.
23. Chang, Y., Tongzon, J., Luo, M., & Lee, P. (2008). Estimation of optimal Handling capacity of a container port: an economic approach. *International Association of Maritime Economists (IAME) Conference*.
24. Luo, M. & Yip, T. (2006). Game theoretical Analysis for inter-port competition: Hong Kong Port. *International Conference on Greater China Supply Chain and Logistics (GCSCCL)*

Book Chapters

1. M. Luo & T.L. Yip (2015) (ed). "Port and Environment". UK and New York: Routledge Taylor & Francies Group
2. Luo, M. (2011). "Environmental Logistics", In John Liu (Ed.) *Supply Chain Management and Transport Logistics*, (pp. 560). UK and New York: Routledge Talor & Francies Group.
3. Luo, M., Opaluch, J. J. , Anderson, J. L. , & Schnier, K. (2011). "Managing the intentional introduction of nonnative species", In Jian G. Qin (Ed.) *Oyster: Physiology, Ecological Distribution and Mortality*. Nova Science Publishers.
4. Luo, M. (2005). "Estimating Indirect and Long-term Fisheries Losses Due to Marine Sediment Disposal: A Case Study ", *Sustaining Large Marine Ecosystems: The Human Dimension, Large Marine Ecosystems of the World*.

Technical reports

1. Thomas A. Grigalunas, Meifeng Luo, and Young-Tae Chang (2001). *Comprehensive Framework for Sustainable Container Port Development for the United States East Coast* (Year One Final Report). URI-TC Project No. Grant 536106. www.iritc.org/media/finalreportspdf/536106.pdf
2. Thomas Grigalunas, Simona Trandafir, Suk Jae Kwon, and Meifeng Luo (2004). *Comprehensive Framework for Sustainable Container Ports Development of US East Coast in the 21st Century* (Year three). URI-TC project No. 536163
3. Thomas A. Grigalunas, Meifeng Luo, Simona Trandafir, Christopher Anderson, and Suk Jae Kwon (2004) *Issues in Container Transportation in the Northeast: Background, Framework, Illustrative Results and Future Directions*. URI-TC Projct No. 536185
4. Christopher M. Anderson, Young-Tae Chang, Meifeng Luo and Thomas Grigalunas (2008). *A Strategic Model of Investment and Price Competition Among Container Ports*. UTI-TC project No. 0001028. www.iritc.org/media/finalreportspdf/0001028.pdf

Policy Papers

1. "Regional competition for the international shipping center: the development of maritime arbitration center in Asia". SeaView – Journal of Institute of Seatransport, No. 100, Winter 2012
2. "Status and development of International Maritime Arbitration Center in Asia. Maritime Section", TaKungPao June 29-30, 2012. (大公報 航運版, "亞洲海事仲裁現狀與發展",2012.06.29-30)
3. "Supporting Hong Kong to compete for International Maritime Service Center". Research Report, Development Research Center of the State Council, PRC, No. 164 (Total 4166) 2012. (國務院發展研究中心調查研究報告, "支持香港競逐國際航運服務中心", 第 164 號 (總 4166 號) 2012.09.17)
4. Container shipping market analysis and prediction. SeaView-Journal of the institute of seatransport, No. 89, 2010

Ph.D. students (as chief supervisor)

1. Lixian Fan (Ph.D. awarded 2011, and now a faculty member in Shanghai University.)
2. Ying Kou (2011-2014): Ph.D. awarded Oct 2015. Now a faculty member of Shanghai Jiaotong University
3. Jonathan S.H. Shin (Sept. 1, 2013-) : full time Ph.D. student
4. Xiaofan Wu (Sept. 1, 2013-) : full time Ph.D. student
5. Mengchi Li (Sept. 1, 2013-): Self-financed part-time Ph.D. student
6. Yan Gao, (From Jan. 2014-Jan, 2015). Jointly supervised with the School of management, the University of Chinese Academy of Sciences.
7. Shuli Liu (from Sept. 1, 2015): Co-supervisor with Dr. Sarah Wan.
8. Lingge Zhang (from Sept. 1, 2016): Co-supervise with Dr. Dong Yang

Research Grants (as PI)

Project Name

HK\$

US\$

1	A Three-party Equilibrium Model for Optimal National Ship Registration Policy 2014-2016 (GRF 3.5), RGC Direction Allocation, 2013-now	155,000	19,994
2	Model averaging in time series and its application 2013-now	160,000	20,639
3	Management of Transportation Service Providers in a Global Organization, UGC Matching Grant (Niche Area Development), 2008-2013	1,150,000	148,339
4	Analyzing the hub port selection behavior of major liner services, Hong Kong RGC/GRF , 2012-2015	489,100	63,089
5	Optimal National Shipping Policy in Global Competitive Shipping Market with Open Registry, 2012-2014, RGC Direction Allocation.	105,000	13,544
6	Regional container cargo equilibrium analysis and forecasting: How Hong Kong Prospers with a Sub-40% Market Share, UGC Matching Grant. (Niche Area Development) 2008-2012	1,150,000	148,339
7	Flag Choice Behavior in World Merchant Fleet , RGC Direction Allocation. 2011-2012	105,000	13,544
8	Capacity Investment Behavior in Global Container Shipping Market , DGRF, 2010	49,500	6,385
9	Bertrand Competition of Container ports in Growing Market with Lumpy Investment , Hong Kong RGC/CERG , 2008-2011	426,000	54,950
10	Building a Database for multimodal Transportation Network in Greater China, DGRF, 2007	31,500	4,063
11	Computer Simulation for Collision Regulations at Sea, 2006	18,000	2,322
Total		3,839,100	495,208

Consulting project: (PI)

Appointed Project Leader for the policy research “Strengthening cooperation with the Mainland on promoting Hong Kong as the International Shipping Center” by Transport and Housing Bureau, Hong Kong SAR Government. Nov. 2013. (HK\$572,360, equivalent to US\$73,829)

Awards

1. Faculty Fellow, Faculty of Business, The Hong Kong Polytechnic University (2016)
2. Best manuscript award for papers published in Maritime Policy and Management in the year of 2014. £1000. (2015)
3. Department Performance Award, \$67,000 (2012-2013)
4. Best Reviewer Award, 2012 Annual Conference of International Association of Maritime Economists, Taipei, Sept. 5-8, 2012
5. Eagle Award (most promising young leaders in Maritime Studies), 2012 Annual Conference of International Association of Maritime Economists, Taipei, Sept. 5-8, 2012

Services

Contribution to the professional/community services

- International Expert Committee, Shanghai International Shipping Institute 2014-
- Expert committee, South-China transport logistics development and research center 2015-now
- Conference Chair, Maritime education and the development of international shipping center. Hong Kong Polytechnic University 2013
- Co-Chair, International Forum for Shipping, Port and Airport. 2013
- Guest Editor, Special Issue of Transport Policy for International Forum of Shipping, Port and Airport, 2013 2013
- Member, Committee on Marine Environment, Transportation Research Board, National Research Council, Academy of Science, USA 2013-now

- Guest Editor, Special Issue of Maritime Policy & Management for International Forum of Shipping, Port and Airport 2012
- Associate Editor, Maritime Policy & Management 2012-now
- Session Chair, 2012 Annual Conference of International Association of Maritime Economists, Sept. 5-8, 2012, Taipei. 2012
- Asia Committee Member, 2012 Annual Conference of International Association of Maritime Economists, Sept. 5-8, 2012 2012
- Committee member, IFSAP 2012 2012
- Session Chair, International Forum for shipping and port development, Shanghai International Shipping Institute 2011
- Advisory committee, 1st International Conference on Computational Logistics. September 20-22, 2010. Shanghai, China 2010
- Member, International Association of Maritime Economists 2006-now
- Member, Hong Kong Maritime Forum 2012-now
- Paper referee: Transportation Research Part B, A, E, Transportation Research Record, Maritime Policy & Management, International Journal of Shipping & Transport Logistics, European Journal of Operations Research, Annual Conference of Transportation Research Board, Annual Conference of International Association of Maritime Economists, International Forum in Shipping, Port & Airport.

Contribution to PolyU

- Search Committee for Head of the Department of Logistics and Maritime Studies 2013-2014
- Member, International Center for Maritime and Logistics Management (ICMLM) 2013-now
- Member, Department Management Committee 2012-2013
- Member, Department Research Committee 2012-now
- Member, Department Staffing Committee, Review Committee, Postgraduate Programme Committee 2013-now
- Council member, Shanghai-HongKong International Maritime Research, Development and Communication Center (SHK-IMRDCC) 2012-now