

Jenn-Rong Lin

Department of Transportation Science, National Taiwan Ocean University
2 Pei-Ning Road, Keelung 20224, Taiwan
Ph: 886-2-24622192 ext. 7016; Fax: 886-2-24633745; jrlin@mail.ntou.edu.tw

EDUCATION

6/99 – 5/02 **Cornell University**, Ithaca, NY, Ph.D., Civil & Environmental Engineering
MAJOR: Transportation Systems Engineering
MINOR: Operations Research and Industrial Engineering
DISSERTATION: Strategic Design of Distribution Systems with Economies of Scale in Transportation

8/98 – 5/99 **Cornell University**, Ithaca, NY, M.E., Civil & Environmental Engineering

9/89 – 6/93 **National Taiwan University**, Taipei, Taiwan, B.S.E., Civil & Environmental Engineering

PROFESSIONAL EXPERIENCE

2/15 – present **Professor**

Department of Transportation Science, National Taiwan Ocean University, Keelung, Taiwan.

8/11 – 1/15 **Associate Professor**

Department of Transportation Science, National Taiwan Ocean University, Keelung, Taiwan.

2/07 – 9/11 **Assistant Professor**

Department of Transportation Science, National Taiwan Ocean University, Keelung, Taiwan.

8/03 – 1/07 **Assistant Professor**

Graduate Institute of Transportation & Logistics, National Chia-Yi University, Chia-Yi, Taiwan.

8/02 – 7/03 **Assistant Professor**

Department of Logistics Management, National Kaohsiung First University of Science and Technology, Kaohsiung, Taiwan.

8/99 – 6/02 **Research Assistant**

Department of Civil & Environmental, Cornell University, Ithaca, NY.

8/93 – 6/98 **Civil Engineer**

Moh & Associates, Inc., Keelung, Taiwan..

7/91 – 6/93 **Second Lieutenant**

The Air Force of Republic of China, Tai-Chung, Taiwan.

HONORS AND AWARDS

- Best Paper Award, The 40th International Conference on Computers & Industrial Engineering (CIE40) (2010)
- Best Paper Award, Maritime Quarterly (2012)
- 2013, 2014, 2015 Outstanding Teaching Award (National Taiwan Ocean University, College of Maritime Management)
- 2012, 2013, 2016 Undergraduate Outstanding Professor (National Taiwan Ocean University, College of Maritime Management)

MEMBERSHIP ON BOARDS, PANELS, AND IN PROFESSIONAL SOCIETIES

- Member, the Institute for Operations Research and the Management Sciences (INFORMS)
- Member, the Association of European Operational Research Societies (EURO)
- Member, the Chinese Institute of Transportation
- Member, the editorial board of Journal of Crisis Management.
- Member, the editorial board of Logistics and Supply Chain Management (LSCM).

PUBLICATIONS

A. Peer-Reviewed Journal Papers

1. Yan, S.*, Lin, J.-R., Chen, Y.-C., Xie, F.-R. (2017), "Rental Bike Location and Allocation under Stochastic Demands", *Computers & Industrial Engineering* 107, pp.1-11.
2. Wu, W.-M., Lin, J.-R.* (2015), "Productivity Growth, Scale Economies, Ship Size Economies and Technical Progress for the Container Shipping Industry in Taiwan", *Transportation Research, Part E*, 73, pp. 1-16 (SSCI, SCI).
3. Wu, W.-M., Lin, J.-R.* (2014), "Technical Change and Bias in the Container Shipping Industry in Taiwan", *International Journal of Shipping and Transport Logistics*, 6, No. 4, pp. 441-459. (SSCI)
4. Yan, S., J.-R. Lin* & C. W. Lai (2013), "The Planning and Real-Time Adjustment of Courier Routing and Scheduling under Stochastic Travel Times and Demands", *Transportation Research, Part E*, 53, pp. 34-48. (SSCI, SCI)
5. Lin, J.-R., S. Yan & C. W. Lai (2013), "International express courier routing and scheduling under uncertain demands, *Engineering Optimization* 45, No. 7, 881-897. (SCI)
6. Lin, J.-R.*, T.-H. Yang and Chang, Y.-C. (2013), "A Hub Location Inventory Model for Bicycle Sharing System Design: Formulation and Solution", *Computers & Industrial Engineering* 65, pp. 77-86. (SCI)
7. Lin, J.-R.* and T.-H. Yang (2011), "Strategic Design of Public Bicycle Sharing Systems with Service Level Constraints", *Transportation Research, Part E*, 47, pp. 284-294. (SSCI, SCI)
8. Chang, Y.-C., Hsu, C.-J., J.-R. Lin (2011) "A historic move - the opening of direct flights between Taiwan and China" , *Journal of Transport Geography* 19, No 2, pp. 255-264. (SSCI)
9. Lin, J.-R., Yang, T.-H.* and Y.-C. Huang (2011), "A Multiple-Period Facility Location Model for Large-Scale Distribution Network Design Problems with Budget and Service Level Considerations", *International Journal of Operations Research*, 8, No. 1, 69 -75.
10. T.-H. Yang, Lin, J.-R.* and Chang, Y.-C. (2010), "Strategic Design of Public Bicycle Sharing Systems Incorporating with Bicycle Stocks Considerations" *Proceeding of The 40th International Conference on Computers and Industrial Engineering (EI) (CIE 40 Best paper Award)*
11. Lin, J.-R.* and H.-C. Lei (2009), "Distribution Systems Design with Two-Level Routing Considerations" *Annals of Operations Research* 172, No 1, pp. 329-347. (SCI)
12. Lin, J.-R., Nozick, L.K. and M.A. Turnquist (2006), "Strategic Design of Distribution Systems with Economies of Scale in Transportation," *Annals of Operations Research* 144, No 1, pp. 161-180. (SCI)
13. Lin, J.-R.*, Nozick, L.K. and M.A. Turnquist (May 2005), "Inventory Allocation with Multi-Echelon Service Level Considerations," *Lecture Notes in Computer Science*, 3483, pp.499-508. (SCI-Expanded, EI)

B. Conference Presentations

1. Lin, J.-R.* (2016), "The planning of walking school bus routing and scheduling", the 28th European Conference on Operational Research (EURO 2016), Poznan, Poland.
2. Lin, J.-R.*, Shen, C.-W. (2015), "Distribution systems design for public bicycle sharing systems with routing considerations", the 27th European Conference on Operational Research (EURO 2015), Glasgow, Scotland.
3. Lin, J.-R.* (2014), "Strategic Design of Distribution Systems with Two-level Routing Considerations under Stochastic Demands", POMS International Conference 2014, Singapore.
4. Lin, J.-R.* (2013), "Distribution Systems Design with Two-level Routing Considerations under Demand Uncertainty", the 25th European Conference on Operational Research (EURO 2013), Rome, Italy.
5. Lin, J.-R.* and Yang, T.-H. (2012), "Strategic Design of Public Bicycle Sharing Systems with Service Level Constraints", the 25th European Conference on Operational Research (EURO 2012), Vilnius, Lithuania.
6. Lin, J.-R.*, Yang, T.-H., Wu, W.-M., Shang, K.-C. (2011), "Locating Cross-docking Centers with Two-level Routing Considerations under Demand Uncertainty", the 19th Triennial Conference of the International Federation of Operational Research Societies (IFORS2011), Melbourne, Australia
7. Lin, J.-R.*, Yang, T.-H., and Chang, Y.-C. (2010), "Strategic Design of Public Bicycle Sharing Systems Incorporating With Bicycle Stocks Considerations", The 40th International Conference on Computers and Industrial Engineering (CIE 40), Awaji Island, Japan.
8. Lin, J.-R.* and Fang, H.-P. (2010), "A Location-routing Problem with Simultaneous Pickup and Delivery for the Public Bicycle Redistribution Systems Design", the Fourth Asia-Pacific Conference on Systems Engineering (APCOSE 2010), Kee-lung, Taiwan.
9. Lin, J.-R.* and Lei, H.-C. (2008), "Distribution Systems Design with Two-level Routing Considerations", 3th World Conference on Production and Operations Management (POM 2008), Tokyo, Japan.
10. Yang, T.-H., Chiu, T.-Y. and Lin, J.-R. (2006), "Capacitated Hub-and Spoke Network Design Under Demand Uncertainty", 2006 ICLS, Kaohsiung, Taiwan.
11. Lin, J.-R.* and Yu-Chen Huang (2006), "A Dynamic Distribution Systems Design Problem with Budget and Service Level Considerations", 2006 ICLS, Kaohsiung, Taiwan.
12. Lin, J.-R.*, Chin-Ho Lin and Ta-Hui Yang (2006), "A Hybrid Algorithm to Network Revenue Management Problems", 2006 ATRS, Nagoya, Japan.
13. Yang, Ta-Hui and Lin, J.-R. (2006), "The Comparison of Two Different Capacity Constraints for Hub Location Problem", 2006 ATRS, Nagoya, Japan.
14. Lin, J.-R.*, Nozick, L.K. and M.A. Turnquist (2005), "Inventory Allocation with Multi-Echelon Service Level Considerations," ICCSA 2005 - OTA workshop, Singapore
15. Lin, J.-R., M.A. Turnquist*, and Nozick, L.K. (2004) "Strategic Design of Distribution Systems with Economies of Scale in Transportation," INFORMS Annual Meeting, Denver
16. Lin, J.-R.* (2002), "Multi-echelon Inventory Allocation" in Proc. The Asian Retail and Distribution Forum, pp.3-27~3-36

RESEARCH FUNDING

Title: The Planning of Innovative Urban Delivery Systems

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/17 to 7/19

Amount: NTD \$ 1,155,000

Title: Strategic design and tactical planning of dry-port-based distribution systems

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/16 to 12/17

Amount: NTD \$561,000

Title: The Planning and Operations of Safety Routes to School

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/14 to 7/16

Amount: NTD \$ 1,183,000

Title: Strategic Design and Operation of Car Sharing Systems

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/13 to 7/14

Amount: NTD \$505,000

Title: The Planning of Public Bicycle Sharing Systems: Issues, Models and Methods

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/12 to 7/13

Amount: NTD \$504,000

Title: Design and Operation of Public Bicycle Redistribution Systems

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/10 to 7/12

Amount: NTD \$ 1,187,000

Title: Strategic Design of Public Bicycle Rental Systems with Service Level Considerations

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/09 to 7/10

Amount: NTD \$528,000

Title: Strategic design of distribution systems with transportation mode selection and service level considerations

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/08 to 7/09

Amount: NTD \$395,000

Title: Strategic Design of Distribution Systems with Flexible Distribution Strategies

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/07 to 7/08

Amount: NTD \$ 450,000

Title: Multi-objective Probabilistic Traveling Salesman Problem -- International express courier routing and scheduling

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 8/05 to 7/06

Amount: NTD \$486,000

Title: A genetic algorithm approach to strategic design of production/distribution systems problems

Sponsor: Ministry of Science and Technology, Taiwan

PI: Jenn-Rong Lin

Period: 1/03 to 7/03

Amount: NTD \$285,100

Total: about NTD \$7,239,100

ADVISING

- Primary supervisor for 16 M.S. students (14 past, 2 current), and more than 20 undergraduates.
- Committee member for 2 Ph.D. students (2 past) and more than 20 M.S. students (past).

OTHER SELECTED SERVICE

A. Professional

- Reviewed journal articles for *Transportation Research, Part A; Transportation Research, Part B; Transportation Research, Part C; Transportation Research, Part E; TRR, IEE ITS; EJOR; ANOR; CAIE; Advances in Operations Research; Applied Mathematical Modeling; Journal of Advanced Transportation, International Journal of Sustainable Transportation; Networks and Spatial Economics, Journal of Transport and Land Use; EASTS; Journal of Materials Science & Technology, Taiwan*
- Reviewed research proposals for Ministry of Science and Technology, Taiwan.

B. University

- Member, Committee to university general affair
- Member, Committee to safety and environmental issues.
- Member, Committee to scholarship.