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Teaching and Research Areas :

Decision and Modeling, Transportation Optimization, Supply Chain Financing, Supply Chain Management

Academic Qualifications

2005 - 2008 Ph.D / Management Science / The Hong Kong Polytechnic University
2002 - 2005 Master / Operations Research / Nanjing University
1998 - 2002 Bachelor / Applied Mathematics / Zhejiang Normal University

Teaching Experiences

2014.7 – present Associate Professor /MSB / Macau University of Science and Technology
2009.2 – 2014.6 Assistant Professor / FM / Macau University of Science and Technology
2009.2 – 2009.8 Assistant Researcher / Sino-US Global Logistics Institute / Shanghai Jiaotong University
2008.9 – 2009.1 Research Associate / Faculty of Business / The Hong Kong Polytechnic University

Representative Publications

Journal Articles:

1. H.J. Tang, A. Elalouf, E. Levner, & T.C.E. Cheng, Efficient computation of evacuation routes on a three-dimensional, forthcoming in Computers & IE (SCI), 2014, 76, 231-242.
2. H.J. Tang, C. Pang & C.T. Ng, Optimization of vehicle population and reduction of CO₂ emission, International Journal of Shipping and Transport Logistics(SSCI), 2014, 6(4): 412-421.
3. E. Amir, L. Eugene, H.J. Tang, An improved FPTAS for maximizing the weighted number of just-in-time jobs in a two-machine flow shop problem, Journal of Scheduling (SCI), 2013, 16, 429–435.
4. H.J. Tang, T. Ding, S.Y. Du, X.Z. Meng & M.L. Xu, Study on Macau flight catering based on ARIMA and newsvendor models, Journal of Macau University of Science and Technology, 2013, 7(1), 16-22.
5. H.J. Tang, Z.C. Sun & X.L. Xu, The influence of perceived reward for creation, exploitative learning and creative performs to job performance, Advances in Information Science and Service Science (EI), 2013, 5(3): 340-346.
6. H.J. Tang, A note on the nestedness property for ordered median problems in tree

- networks, *Journal of Systems Science and Complexity (SCI)*, 2013, 26: 335-340
7. A. Elalouf, E. Levner, H. Tang, Multi-agent scheduling model for maximizing agent satisfaction. - *Multi-disciplinary Trends in Artificial Intelligence, Lecture Notes in Computer Science*, 2012, 7694: 90-100.
 8. H.J. Tang, T.C.E. Cheng & C.T. Ng, A note on the sub-tree ordered median problem in networks based on nestedness property, *Journal of Industrial Management and Optimization (SCI)*, 2012, 8(1): 41-49.
 9. H.J. Tang, S.Y. Liu, L.Z. Chen & S.K. Fu, Study on the inventory management of oil products in Macau, *Journal of Macau University of Science and Technology*, 2012, 6(1), 8-15.
 10. H.J. Tang, T.C.E. Cheng & C.T. Ng, Multi-facility ordered median problems in directed networks, *Journal of Systems Science and Complexity(SCI)*, 2011, 24: 1-7.
 11. Y.D. Shi & H.J. Tang, Study on the optimal operation of free shuttle buses in Macau, *Journal of Macau University and Technology*, 2010, 4: 37-46.
 12. H.J. Tang, T.C.E. Cheng & C.T. Ng, Multi-facility convex ordered median problems in networks, *Computers & IE (SCI)*, 2009, 57: 707-712.
 13. H.J. Tang & Y.J. Chen, Upper signed domination number, *Discrete Mathematics (SCI)*, 2008, 308: 3416-3419.
 14. H.J. Tang & Y.J. Chen, Acyclic domination number and minimum degree in 2-diameter-critical graphs, *Ars Combinatoria (SCI)*, 2008, 86: 51-56.

Academic Books / Monographs:

Book Chapters:

H.J. Tang, *Mathematical Modeling with Multidisciplinary Applications (Ch10, Decision Modeling in Supply Chain Management)*, John Wiley & Sons, Inc., 2013.

Conference Proceedings:

1. H.J. Tang, X.D. Zhang & B. Huang, A case study of ordering policy with mass customization, *Proceedings - 2014 7th International Joint Conference on Computational Sciences and Optimization*, CSO 2014, p 172-176.
2. H.J. Tang & B. Huang, Analysis of an EOQ model in non-instantaneous deteriorating items, *Proceedings of 2013 International Conference on Computers and Industrial Engineering*, CIE, v1, p 278-290, Hong Kong, 2013.
3. H.J. Tang & B. Huang, Study of EOQ model in deteriorating items with price reduction sale and permissible shortage, *ICEMSI 2013 - 2013 International Conference on Engineering, Management Science and Innovation, September 30, 2014*.
4. H.J. Tang & Eugene Levner, Exact and approximation algorithms of scheduling

in evacuation and recovery service, *ICEMSI 2013 - 2013 International Conference on Engineering, Management Science and Innovation, September 30, 2014.*

5. H.J. Tang, X.L. Xu, B. Huang, Evaluation on Bus Rapid Transit in Macau Based on Congestion and Emission Reduction, *Proceedings of 2012 International Conference on Low-carbon Transportation and Logistics, and Green Buildings*, Beijing, China, 2012.
6. X.L. Xu, H.J. Tang, C. Pang, Optimizing the population of free shuttle buses in Macau”, *Proceedings-4th International Joint Conference on Computational Sciences and Optimization*, pp: 1300-1303, Kunming, China, 2011.

Research Projects

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| 2012 – 2013 | Study of Evacuation Scheduling in Macau |
| 2010 – 2011 | Study on the Optimal Operation of Free Bus Shuttles in Macau |

Membership of Academic Associations and community service

Macao Economic Association,
Macao Association for Promotion of Science and Technology
Chartered Institute of Logistics and Transport in Macao

Professional Qualifications and Awards

CMILT, Chartered Institute of Logistics and Transport in Macao
CSO Conference (2011) Best Paper Finalist