

Ni Sheng



Position : Professor/Assistant Dean
Faculty : School of Business
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Teaching and Research Areas: Statistics, Decision Modeling, Operations Management, Environmental Modeling for Environmental Management and Urban Planning

Academic Qualification

2006 - 2007	Postdoctoral Scholar / University of California, Berkeley
2002 - 2005	PhD / The University of Hong Kong
1998 - 2000	MEng / Nanyang Technological University, Singapore
1991 - 1995	BSc / Civil Engineering / Zhejiang University

Working Experience

2017 - Present	Professor / School of Business / Macau University of Science and Technology
2013 - Present	Assistant Dean / School of Business / Macau University of Science and Technology
2012 - 2017	Associate Professor / School of Business / Macau University of Science and Technology
2007 - 2012	Assistant Professor / Macau University of Science and Technology
2005 - 2006	Research Associate / The University of Hong Kong
2000 - 2002	Research Engineer / Data Storage Institute, National University of Singapore

Recent Awards

2016	Macao Science and Technology Progress Award 3rd Prize by Macao SAR
2014	BOC Excellent Research Award by Macau University of Science and Technology

Representative Publications

1. **Sheng N**, Zhou X, Zhou Y. Environmental impact of electric motorcycles: Evidence from traffic noise assessment by a building-based data mining technique. *Science of the Total Environment*, 2016, 554: 73-82. [SCI, 2016 IF: 4.9, ranking: 9.6% in Environmental Sciences]
2. **Sheng N**, Tang UW. The first official city ranking by air quality in China - A review and analysis. *Cities*, 2016, 51: 139-149. [SSCI, 2016 IF: 2.449, ranking: 5.3% in Urban Studies]
3. Dai BL, **Sheng N***, He YL, Xu JM, Zhu AF. An inland waterway traffic noise prediction model for environmental assessment in China. *International Journal of Environmental Science and Technology*, 2016, 13: 1235-1244. [SCI, 2015 IF: 2.344, ranking: 35% in Environmental Sciences]
4. **Sheng N**, Tang UW. Spatial techniques to visualize acoustic comfort along cultural and heritage routes for a world heritage city. *Sustainability*, 2015, 7: 10264-10280. [SSCI/SCI, 2015 IF: 1.343, ranking: 59.6% in Environmental Studies]
5. Choy KL, **Sheng N***, Lam HY, Lai IKW, Chow KH, Ho GTS. Assess the effects of different operations policies on warehousing reliability. *International Journal of Production Research*, 2014, 52: 662-678. [SCI, 2014 IF: 1.477, ranking: 32% in Operations Research & Management Science]
6. **Sheng N**, Tang UW. Zhuhai. *Cities*, 2013, 32: 70-79. [SSCI, 2013 IF: 1.836, ranking: 10.5% in Urban Studies]
7. **Sheng N**, Tang UW. Risk assessment of traffic-related air pollution in a world heritage city. *International Journal of Environmental Science and Technology*, 2013, 10: 11-18. [SCI, 2010 IF: 3.157, ranking: 14% in Environmental Sciences]
8. **Sheng N**, Tang UW. A building-based data capture and data mining technique for air quality assessment. *Frontiers of Environmental Science & Engineering*, 2011, 5: 543-551. [SCI]
9. **Sheng N**, Tang UW. Spatial analysis of urban form and pedestrian exposure to traffic noise. *International Journal of Environmental Research and Public Health*, 2011, 8: 1977-1990. [SCI]
10. **Sheng N**, Li SF. A multi-scale non-equilibrium molecular dynamics algorithm and its applications. *International Journal of Applied Mechanics*, 2009, 1: 405-420. [SCI]
11. Tang UW, **Sheng N**. Macao. *Cities*, 2009, 24: 220-231. [SSCI]
12. Li SF, **Sheng N**. On multiscale non-equilibrium molecular dynamics simulations. *International Journal for Numerical Methods in Engineering*, 2010, 83(8-9): 998-1038. [SCI]

13. Wu D, Lo SH, **Sheng N**, Sze KY. Universal three-dimensional connection hexahedral elements based on hybrid-stress theory for solid structures. *International Journal for Numerical Methods in Engineering*, 2010, 81(3): 307-334. [SCI]
14. **Sheng N**, Li SF. A non-equilibrium multiscale simulation of shock wave propagation. *Mechanics Research Communications*, 2008, 35: 10-16. [SCI]
15. Li SF, **Sheng N**, Liu XH. A non-equilibrium multiscale simulation paradigm. *Chemical Physics Letters*, 2008, 451: 293-300. [SCI]
16. Liu XH, Li SF, **Sheng N**. A cohesive finite element for quasi-continua. *Computational Mechanics*, 2007, 42: 543-553. [SCI]
17. **Sheng N**, Sze KY, Cheung YK. Trefftz solutions for piezoelectricity by Lekhnitskii's formalism and boundary-collocation method. *International Journal for Numerical Methods in Engineering*, 2006, 65: 2113-2138. [SCI]
18. **Sheng N**, Sze KY. Multi-region Trefftz boundary element method for fracture analysis in plane piezoelectricity. *Computational Mechanics*, 2006, 37: 381-393. [SCI]
19. Sze KY, **Sheng N**. Polygonal finite element method for nonlinear constitutive modeling of polycrystalline ferroelectrics. *Finite Elements in Analysis & Design*, 2005, 42: 107-129. [SCI]
20. Jin WG, **Sheng N**, Sze KY, Li J. Trefftz indirect methods for plane piezoelectricity. *International Journal for Numerical Methods in Engineering*, 2005, 63: 139-158. [SCI]
21. Sze KY, Chen JS, **Sheng N**, Liu XH. Stabilized conforming nodal integration: exactness and variational justification. *Finite Elements in Analysis & Design*, 2004, 41: 147-171. [SCI]
22. Fan SC, **Sheng N**. Meshless formulation using NURBS basis functions for eigenfrequency changes of beam having multiple open-cracks. *Journal of Sound and Vibration*, 2004, 269: 781-793. [SCI]
23. Hua W, **Sheng N**, Liu B. ABS designs for load/unload and shock resistance. *IEICE Transactions on Electronics*, 2002, E85-C, No. 10: 1789-1794. [SCI]
24. **Sheng N**, Yam CH, Iu VP. Analytical investigation and the design of the compressive strength of steel gusset plate connections. *Journal of Constructional Steel Research*, 2002, 58: 1473-1493. [SCI]

Research Projects

2013 - 2015	High-Resolution Traffic Noise Mapping in the Macao Peninsula (Funded by Macao Science and Technology Development Fund, Principal Investigator)
2014 - 2015	Road Traffic Noise Prediction Model for Macao (Funded by Faculty Research Grant, Principal Investigator)
2012 - 2013	Impacts of Environmental Elements on Residential Property Values in Macao (Funded by Macao Foundation, Principal Investigator)
2012 - 2013	Survey for Residential Status in the Neighborhood of Kou Lou (Project commissioned by the Land, Public Works and Transport Bureau, Macao SAR)
2010 - 2011	Survey for Residential Status in the Neighborhood of Barra (Project commissioned by the Land, Public Works and Transport Bureau, Macao SAR)
2010 - 2011	Public Environmental Awareness Survey in Macao (Project commissioned by the Environmental Protection Bureau, Macao SAR)
2009 - 2010	Survey for Residential Status in the Neighborhood of Ha Wan (Project commissioned by the Land, Public Works and Transport Bureau, Macao SAR)
2009 - 2010	Environmental Economic Assessment of Macao Light Rail Transit System (Project commissioned by the Transportation Infrastructure Office, Macao SAR)