Ni Sheng



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Teaching and Research Areas: Statistics, Decision Modeling, Operations Management, Environmental Modeling for Environmental Management and Urban Planing

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
2018 - Present	Vice Dean / School of Business / Macau University of Science and Technology
2013 - 2018	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

- Sheng N, Tang UW, Grydehoj A. Urban morphology and urban fragmentation in Macau, China: island city development in the Pearl River Delta megacity region. *Island Studies Journal*, 2017, 12: 199-212. [SSCI]
- 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]
- 3. **Sheng N**, Tang UW. The first official city ranking by air quality in China A review and analysis. *Cities*, 2016, 51: 139-149. [SSCI]
- 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]
- 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]
- 6. Sheng N, Tang UW. Zhuhai. Cities, 2013, 32: 70-79. [SSCI]
- 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]
- 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]
- 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]
- 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]
- Sheng N, Sze KY. Multi-region Trefftz boundary element method for fracture analysis in plane piezoelectricity. *Computational Mechanics*, 2006, 37: 381-393. [SCI]
- 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]
- 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]
- Sheng N, Yam CH, lu 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 2015High-Resolution Traffic Noise Mapping in the Macao Peninsula (Funded by
Macau 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 Macau 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)