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教研領域 教授課程包括統計學、決策方法、營運管理、計量學、微積分和綫性代數等；研究方向是基於環境計算模擬的環境管理與決策分析。

學歷

2006 - 2007 美國加州大學柏克利分校 / 博士後
2002 - 2005 香港大學 / 博士
1998 - 2000 新加坡南洋理工大學 / 碩士
1991 - 1995 浙江大學 / 土木工程 / 學士

教學經驗

2013 - 現在 澳門科技大學 / 商學院 / 助理院長
2012 - 現在 澳門科技大學 / 商學院 / 副教授
2007 - 2012 澳門科技大學 / 商學院 / 助理教授
2005 - 2006 香港大學 / 研究助理
2000 - 2002 新加坡國立大學，數據存儲研究所 / 研發工程師

學術成果

期刊文章:

1. 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 (accepted). [SCIE]
2. **Sheng N**, Tang UW. Zhuhai. Cities: The International Journal of Urban Policy and Planning, 2013, 32: 70-79. [SSCI]
3. **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. [SCIE]
4. **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. [SCIE]
5. **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. [SCIE]
6. **Sheng N**, Li SF. A multi-scale non-equilibrium molecular dynamics algorithm and its applications. International Journal of Applied Mechanics, 2009, 1: 405-420. [SCIE]

7. Tang UW, **Sheng N.** Macao. Cities: The International Journal of Urban Policy and Planning, 2009, 24: 220-231. [SSCI]
8. 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]
9. 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]
10. **Sheng N**, Li SF. A non-equilibrium multiscale simulation of shock wave propagation. Mechanics Research Communications, 2008, 35: 10-16. [SCI]
11. Li SF, **Sheng N**, Liu XH. A non-equilibrium multiscale simulation paradigm. Chemical Physics Letters, 2008, 451: 293-300. [SCI]
12. Liu XH, Li SF, **Sheng N.** A cohesive finite element for quasi-continua. Computational Mechanics, 2007, 42: 543-553. [SCI]
13. **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]
14. **Sheng N**, Sze KY. Multi-region Trefftz boundary element method for fracture analysis in plane piezoelectricity. Computational Mechanics, 2006, 37: 381-393. [SCI]
15. 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]
16. 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]
17. 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]
18. 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]
19. Sze KY, Jin WG, **Sheng N**, Li J. Trefftz methods for plane piezoelectricity. Computer Assisted Mechanics & Engineering Sciences, 2003, 10: 619-627.
20. 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]
21. **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]

專著章節:

1. Tang UW, **Sheng N**, Wang ZS. Mobile laboratories for particle and gaseous pollutants. (Chapter 7) In: "Traffic Related Air Pollution and Internal Combustion Engines" (Editors: S. Demidov and J. Bonnet). Nova Science Publishers, 2009. (ISBN: 978-1-60741-145-1)
2. Tang UW, **Sheng N**, Wang ZS. Building Form and Air Pollution in Compact City: A Review for the Macao Peninsula. (Chapter 11) In: "Buildings and the Environment" (Editors: J. Nemecek and P. Schulz). Nova Science Publishers, 2009. (ISBN: 978-1-60876-128-9)

會議論文:

1. **Sheng N**, Hua W, Liu B. Slider and HGA designs for both smooth load/unload operation and high shock resistance. *Magnetics Conference, 2002. INTERMAG Europe 2002. Digest of Technical Papers. 2002 IEEE International*, April-May 2002, Pages AD11.
2. Hua W, **Sheng N**, Liu B. ABS designs for load/unload and shock resistance. *Proceeding of the 6th Asian Symposium on Information Storage Technology*, November 2001, Shanghai, Pages 153-158.
3. **Sheng N**, Fan SC. Meshless finite element method to solve boundary-value problems. *Proceeding of the 4th Asia-Pacific Conference on Computational Mechanics*, December 1999, Singapore, Pages 961-966.
4. Yam CH, **Sheng N**, Iu VP, Cheng JJR. Analytical study of the compressive behavior and strength of steel gusset plate connections. *Proceeding of the 26th Annual Conference of Canadian Society for Civil Engineering*, June 1998, Halifax, Canada, Pages 97-106.

研究項目

2013 - 2015	建立高精度的澳門半島交通噪音圖 (澳門科學技術發展基金資助, 項目負責人)
2012 - 2013	澳門城市環境品質對住宅價格的影響 (澳門基金會資助, 項目負責人)
2012 - 2013	高樓街區居民現狀調查研究 (澳門特區政府土地工務運輸局委託項目)
2010 - 2011	媽閣街區居民現狀調查研究 (澳門特區政府土地工務運輸局委託項目)
2010 - 2011	澳門公眾環境意識調查 (澳門特區政府環境保護局委託項目)
2009 - 2010	下環街區居民現狀調查研究 (澳門特區政府土地工務運輸局委託項目)
2009 - 2010	澳門首二期輕軌環境經濟效益評估 (澳門特區政府運輸基建辦公室委託項目)
2009 - 2011	微積分雙語教學的研究與實踐 (澳門基金會資助, 項目負責人)