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教育背景

博士 1997 美国约翰霍普金斯大学, 机械工程系

硕士 1991 中国科学技术大学, 工程热物理系

学士 1988 中国科学技术大学, 工程热物理系

工作经历

2018.5 — 至今 大连海事大学 船舶与海洋工程学院, 院长, 教授

2017.3 — 2018.4 美国船级社技术总部, 极端环境组 (Harsh Environment), 高级管理型主任工程师 (Senior Managing Principal Engineer)

2015.6 — 2017.3 美国船级社技术总部, 海工结构组 (Offshore Structure), 经理 (Manager)

2012.7 — 2015.6 美国船级社, 中国海洋工程技术中心 (China Offshore Technology Center, COTC), 经理 (Manager)

2012.1 — 2012.6 美国船级社, 中国海洋工程技术中心 (COTC), 主任工程师 (Principal Engineer)

2008.7 — 2011.12 美国船级社技术总部, 主任工程师 (Principal Engineer)

2002.7 — 2008.6 美国船级社技术总部, 高级工程师 (Senior Engineer)

1997.5 — 2002.6 美国船级社技术总部, 工程师 (Engineer)

研究领域

极地船舶及冰级船

船舶结构

学术成果

代表性论文

1. **S. Liu, D. Hua, C. Machado, J.-F. Wu, "Class Approach For Life Extension Process Of Floating Production Installations", Proceedings of the SNAME 21st Offshore Symposium, February**

2016, Houston, Texas

2. Y. Hu, J. Tang, S. Xue, **S. Liu**, “*Stability criterion and its calculation for sail-assisted ship*”, **Int. J. Nav. Archit. Ocean Eng.** (2015) 7:0~0, 20153.
3. S. Ji, S. Di, **S. Liu**, “*Analysis of ice load on conical structure with discrete element method*”. **Engineering Computations**, 2015, 32(4):1121-1134.
4. K. Qi, J. Liu, **S. Liu**, G. Wang, “*Strength Assessment of Polar Ships under Ice Loads Using Direct Calculation Method*”, **J. of Ship Mechanics**, Vol. 18, No. 6, Jun. 2014
5. D. Xu, J. Liu, **S. Liu**, “*Research on Limit Load Criteria for Polar Ships under Ice Loads*”, **J. of Ship Mechanics**, Vol. 18, No. 3, March 2014
6. S. Y. Ji, **S. Liu**, ‘*Interaction between sea ice/iceberg and ship structures: A review*’, **Adv. Polar Sci.**, Vol. 23, p187-195, (2012)
7. H. Yu, T. A. McAllister, J. Dolny, **S. Liu**, J. Liu, ‘*Comparison of Existing US Coast Guard Icebreaker Structural Designs to IACS Polar Class Structural Requirements*’, **ICETECH12**, Banff, Canada, Sept. 2012
8. J. Dolny, **S. Liu**, H. Yu, J. Lee, ‘*Structural Integrity Assessment for a Large Arctic Shuttle Tanker under Ice Loads*’, **ICETECH10**, Alaska, USA, Sept. 2010
9. **S. Liu**, H. Yu, R. Basu, ‘*Plastic Grillage Analysis For Ship Structure Under Ice Loads*’, **ISCOT09**, Busan, Korea, Sept. 2009
10. K. Tikka, K. Riska, **S. Liu**, ‘*Tanker Design Considerations for Safety and Environmental Protection of Arctic Waters: Learning from Past Experience*’, **WMU J. of Maritime Affairs**, Vol. 7, 2008, No. 1, p. 189-204.
11. G. Wang, **S. Liu**, K. Riska, ‘*Recent Advances in Structural Design of Ice-Strengthened Vessels*’, **ICETECH06**, Banff, Canada, July 2006
12. G. Wang, R. Basu, D. Chavda, **S. Liu**, M. S. Lee, Y. S. Suh and Y. J. Han, ‘*Rationalization on Designing Side Structure of Ice Strengthened Tankers*’, **IJOPE**, Vol. 15, No. 2, p. 1, June 2005.
13. **S. Liu**, J. Katz and C. Meneveau, ‘*Evolution and modeling of subgrid scales during rapid straining of turbulence*’, **J. Fluid Mech.** Vol. 387, p. 281.. (1999).
14. **S. Liu**, C. Meneveau and J. Katz, ‘*Experimental study of similarity subgrid-scale models of turbulence in the farfield of a jet*’, **Applied Scientific Research**, Vol. 54, p. 177, (1995).
15. **S. Liu**, C. Meneveau and J. Katz, ‘*On the properties of similarity subgrid-scale models as deduced from measurements in a turbulent jet*’, **J. Fluid Mech.** Vol. 275, p. 83, (1994).

讲授课程

- [1] 船舶与海工工业应用，本科生
- [2] 极地船舶技术概况，研究生

学术兼职

2018.9 — 至今 中国航海学会极地船舶航行装备分委员会 委员