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研究方向：智能船舶与海洋监测传感网、海上通信与目标定位及导航

教育经历

- 2018.09 – 2021.10 上海海事大学 (硕博连续-博士，提前毕业)
专业：交通信息工程及控制
- 2019.09 – 2020.09 里斯本大学 (联合培养博士-国家留学基金委资助)
专业：控制科学
- 2016.09 – 2018.07 上海海事大学 (硕博连读-硕士，保研，1/37)
专业：载运工具运用工程
- 2012.09 – 2016.07 上海海事大学 (本科，卓越工程师培养计划，2/331)
专业：航海技术
- 2015.02 – 2015.06 木浦海事大学 (交换生)
专业：航海技术

工作经历

- 2021.11 – 至今 博士后，上海海事大学电气工程博士后流动站

项目

负责人

- 国家自然科学基金青年项目 (52201401)， “基于量子优化框架的海洋传感网鲁棒性定位与追踪研究”， 2023.1-2025.12， 在研， 主持
- 中国博士后基金面上项目 (2022M712027)， “基于量子耦合优化的水下传感网目标定位与追踪”， 2022.6-2024.11， 在研， 主持
- 上海市“超级博士后”激励计划项目 (2022767)， “高精度高可靠的海洋监测传感器网络目标定位关键技术”， 2022.12-2024.12， 在研， 主持

- 国家留学基金委资助—博士联合培养项目（201908310079，葡萄牙里斯本大学），“无线传感网在水上交通的运用”，2019.9-2022.9，结题，主持
- 上海海事大学拔尖人才培养项目（2019YBR002），“存在多重不确定性的海洋无线传感网节点定位研究”，2019.10-2021.11，结题，主持
- 上海海事大学研究生创新基金项目（2017ycx030），“基于改进粒子滤波的海洋监测无线传感网协同定位研究”，2017.6-2018.6，结题，主持

参与

- 国家重点研发计划子课题（2021YFC2801002），“高纬度地区通信保障服务需求及通信架构研究”，2021.12-2024.11，在研，参与
- 国家自然科学基金面上项目（52071200），“基于动态自适应成簇的海洋传感网智能数据预测与重构”，2021.1-2024.12，在研，参与
- 上海市科学技术委员会重点项目（23010502000），“基于深度强化学习的海洋智能集群传感网分布式估计与优化关键技术研究”，2022.12-2025.12，在研，参与
- 国家自然科学基金面上项目（51579143），“基于海浪遮蔽效应模型的海洋传感网三维动态协同定位机制”，2016.1-2019.12，结题，参与
- 上海市科学技术委员会重点项目（18040501700），“基于浮标物联网的沿海气象监测预警系统及其船舶助航应用”，2018.3-2020.9，结题，参与
- 上海市“曙光学者”人才计划项目（12SG40），“基于无线传感网的海上搜救目标定位关键技术研究”，2013.1-2015.1，结题，参与

已发表/录用论文（时间倒序）

1. **X. Mei**, D. Han, Y. Chen, H. Wu, and T. Ma, “Target Localization using Information Fusion in WSNs-based Marine Search and Rescue”, *Alexandria Engineering Journal*, Accepted. (SCI, JCR Q1, 中科院三区, IF: 6.626)
2. **X. Mei**, D. Han, N. Saeed, H. Wu, T. Ma, and J. Xian, “Range Difference-based Target Localization under Stratification Effect and NLOS bias in UWSNs”, *IEEE Wireless Communications Letters*, vol. 11, no. 10, p. 2080-2084, 2022. (SCI, JCR Q1, 中科院二区, IF: 5.281)
3. **X. Mei**, D. Han, N. Saeed, H. Wu, C. Chang, B. Han, T. Ma, and, J. Xian, “Trajectory Optimization of Autonomous Surface Vehicles with Outliers for Underwater Target Localization”, *Remote Sensing*, vol. 14, no. 17, p. 4343, 2022. (SCI, JCR Q1, 中科院二区TOP, IF: 5.349)
4. **X. Mei**, Y. Chen, X. Xu, and H. Wu, “RSS Localization using Multi-step Linearization in the presence of Unknown Path Loss Exponent” *IEEE Sensors Letters*, vol.6, no.8, p.1-4, 2022. (ESCI, EI)

5. 梅骁峻, 吴华锋, 鲜江峰, 马腾, “信息驱动的海洋传感网目标定位的最优部署策略,” *华中科技大学学报 (自然科学版)*, vol. 49, no. 11, pp. 23-29, 2021. (EI, CSCD, 中国科技期刊卓越行动计划—梯队期刊)
6. **X. Mei**, H. Wu, J. Xian, and B. Chen, “RSS-based Byzantine Fault-tolerant Localization Algorithm under NLOS Environment,” *IEEE Communications Letters*, vol.25, no.2, p.474-478, 2021. (SCI, JCR Q2, 中科院三区, IF: 3.553)
7. **X. Mei**, H. Wu, and J. Xian, “Matrix Factorization based Target Localization via Range Measurements with Uncertainty in Transmit Power,” *IEEE Wireless Communications Letters*, vol. 9, no. 10, p.1611-1615, 2020. (SCI, JCR Q1, 中科院二区, IF: 5.281)
8. **X. Mei**, H. Wu, N. Saeed, T. Ma, J. Xian, and Y. Chen, “An Absorption Mitigation Technique for Received-Signal-Strength-Based Target localization in Underwater Wireless Sensor Networks”, *Sensors*, vol. 20, no. 17, p. 4698, 2020. (SCI, JCR Q2, 中科院二区, IF: 3.847)
9. **X. Mei**, H. Wu, J. Xian, B. Chen, H. Zhang, and X. Liu, “A Robust, Non-Cooperative Localization Algorithm in the Presence of Outlier Measurements in Ocean Sensor Networks,” *Sensors*, vol. 19, no. 12, p. 2708, 2019. (SCI, JCR Q2, 中科院二区, IF: 3.847)
10. H. Wu, **X. Mei**, X. Chen, J. Li, J. Wang, and P. Mohapatra, “A novel cooperative localization algorithm using enhanced particle filter technique in maritime search and rescue wireless sensor network.,” *ISA Transactions*, vol 78, p.39-46, 2018. (SCI, JCR Q1, 中科院一区 TOP, IF: 5.911)
11. 梅骁峻, 吴华锋, 陈彦臻, 蒋恩青, “基于改进自适应粒子滤波的无线传感网船舶追踪,” *上海海事大学学报*, vol. 39, no. 2, pp. 12–16, 2018. (北大核心)
12. J. Xian, H. Wu, **X. Mei**, X. Chen, and Y. Yang, “Low-Delay and Energy-Efficient Opportunistic Routing for Maritime Search and Rescue Wireless Sensor Networks”, *Remote Sensing*, vol. 14, no. 20, p. 5178, 2022. (SCI, JCR Q1, 中科院二区TOP, IF: 5.349)
13. H. Wu, Y. Hu, W. Wang, **X. Mei**, and J. Xian, “Ship Fire Detection Based on an Improved YOLO Algorithm with a Lightweight Convolutional Neural Network Model”, *Sensors* vol. 22, no. 19, p. 7420, 2022. (SCI, JCR Q2, 中科院三区, IF: 3.847)
14. J. Xian, H. Wu, **X. Mei**, Y. Zhang, X. Chen, Q. Zhang, and L. Liang. “Novel Energy-Efficient Opportunistic Routing Protocol for Marine Wireless Sensor Networks Based on Compressed Sensing and Power Control”, *Journal of Ocean University of China*, vol. 21, no. 6, p. 1504-1516. (SCI, JCR Q4, 中科院二区, IF: 1.179)
15. T. Ma, W. Zhang, Y. Li, Y. Zhao, Q. Zhang, **X. Mei**, and J. Fan, “Communication-constrained cooperative bathymetric simultaneous localisation and mapping with efficient bathymetric data transmission method”, *Journal of Navigation*, 1-17, 2022. Doi:10.1017/S0373463321000904. (SCI, JCR Q2, 中科院三区, IF: 2.647)
16. Y. Zhang, H. Wu, **X. Mei**, W. Wang, Q. Zhang, and L. Liang, “Unknown Transmit Power RSSD-based Localization under Gaussian Mixture Channel”, *IEEE Sensors Journal*, vol. 22, no.9, pp.9114-9123, 2022 (SCI, JCR Q1, 中科院二区, IF: 4.325)

17. H. Wu, L. Liang, **X. Mei**, and Y. Zhang, “A Convex Optimization Approach for NLOS Error Mitigation in TOA-based Localization”, *IEEE Signal Processing Letters*, vol. 29 pp.677-681, 2022 (SCI, JCR Q2, 中科院二区, IF: 3.201)
18. Y. Zhang, H. Wu, **X. Mei**, J. Xian, W. Wang, Q. Zhang, and L. Liang, “Two-Phase Robust Target Localization in Ocean Sensor Networks using Received Signal Strength Measurements,” *Sensors*, vol. 21, no.5, p.1724, 2021. (SCI, JCR Q1, 中科院三区, IF: 3.847)
19. J. Xian, H. Wu, **X. Mei**, Y. Zhang, H. Chen, and J. Wang, “NMTLAT: A New robust mobile Multi-Target Localization and Tracking Scheme in marine search and rescue wireless sensor networks under Byzantine attack,” *Computer Communications*, vol. 160, pp. 623–635, 2020. (SCI, JCR Q1, 中科院三区, IF: 5.047)
20. Y. Chen, Y. Hu, S. Zhang, **X. Mei**, and Q. Shi, “Optimized Erosion Prediction with MAGA Algorithm Based on BP Neural Network for Submerged Low-Pressure Water Jet,” *Applied Sciences*, vol. 10, no. 8, p. 2926, Apr. 2020. (SCI, JCR Q3, 中科院三区, IF: 2.838)
21. H. Wu, J. Xian, **X. Mei**, Y. Zhang, J. Wang, J. Cao, and P. Mohapatra, “Efficient target detection in maritime search and rescue wireless sensor network using data fusion,” *Computer Communications*, vol. 136, pp. 53–62, 2019. (SCI, JCR Q1, 中科院三区, IF: 5.047)
22. H. Wu, Q. Meng, J. Xian, **X. Mei**, C. Claramunt, and J. Cao, “An Information Entropy Based Event Boundary Detection Algorithm in Wireless Sensor Networks,” *Symmetry (Basel)*, vol. 11, no. 4, p. 537, Apr. 2019. (SCI, JCR Q2, 中科院四区, IF: 2.940)
23. 张媛媛, 吴华锋, 鲜江峰, **梅骁峻**, “双重约束下的海洋无线传感网自适应成簇算法,” *计算机工程与应用*, vol. 19, no. 55, pp. 128–133, 2019. (CSCD)
24. 程帅, 吴华锋, **梅骁峻**, “交替非负约束框架的海洋传感网协同定位,” *计算机工程与应用*, vol. 57, no. 23, pp. 129–136, 2021. (CSCD)
25. **X. Mei**, D. Han, Y. Chen, H. Wu, and J. Xian, “An Actively Positioning System with an Accurate Localization Technique for Sunken Container via a Three-layer Network Structure,” *Asia Navigation Conference, Toyama, Japan, 2022*
26. **X. Mei**, H. Wu, Y. Chen, H. Zhang, and Q. Zhang, “A Lightweight Computation Target Localization Algorithm using Information Fusion in WSNs-based Marine Search and Rescue,” *Asia Navigation Conference, Tianjin, China, 2021*
27. **梅骁峻**, 吴华锋, 鲜江峰, 张浩, 张媛媛, “测距异常情况下的水下传感网鲁棒性定位,” *中国声学学会水声学分会2019年学术会议论文集, 南京, 中国, 2019*

待发表论文

1. **X. Mei**, et. al, “Block Principal Pivoting-based Target Localization with Unknown Transmit Power”, (待投)
2. **X. Mei**, et. al, “A Coarse-to-Fine Localization Technique in Wireless Sensor Networks”, (待投)

3. **X. Mei**, et. al, “Target Localization using Differential Received Signal Strength in Uncertain Environmental Parameter”, (待投)
4. **X. Mei**, et. al, “A Robust Localization Method in the presence of Uncertain Path Loss Exponent in Underwater Wireless Sensor Networks”, (待投)

专利

1. 吴华锋, **梅骁峻**, “一种海上搜救无线传感网协同定位方法”, ZL 201710891573.1 (国家发明专利, 授权)
2. **梅骁峻**, 韩德志, 吴中岱, 王骏翔, 郭磊, 胡蓉, 韩冰, 徐一言, 杨珉, 朱宇, “一种信息融合的海上搜救无线传感网定位方法”, 2022105369680 (国家发明专利, 实质审查)
3. **梅骁峻**, 韩德志, 吴中岱, 王骏翔, 郭磊, 胡蓉, 韩冰, 徐一言, 杨珉, 朱宇, “一种目标定位误差最小的水面自主航行器最优路径规划方法”, 202210536357.6 (国家发明专利, 实质审查)
4. **梅骁峻**, 韩德志, 吴中岱, 王骏翔, 郭磊, 胡蓉, 韩冰, 徐一言, 杨珉, 朱宇, “一种水下无线传感网目标位置和环境传播参数的联合估计方法”, 202210536969.5 (国家发明专利, 实质审查)
5. **梅骁峻**, 吴华锋, 韩德志, 黎梦真, 陈信强, 鲜江峰, “非视距条件下信号传播损耗未知的水面传感网定位方法”, 202211419052.3 (国家发明专利, 实质审查)
6. **梅骁峻**, 吴华锋, 韩德志, 陈信强, 鲜江峰, 李美琪, 张倩楠, 王维军 “一种参数不确定的海洋传感网定位方法”, 202211471174.7 (国家发明专利, 实质审查)
7. 鲜江峰, 马俊领, 吴华锋, 杨勇生, **梅骁峻**, 陈信强, 张媛媛, “一种海事搜救无线传感网通信方法、装置及存储介质”, 202210840637.6 (国家发明专利, 实质审查)
8. 吴华锋, 鲜江峰, **梅骁峻**, 陈信强, 张媛媛, 张倩楠, 梁立年, “一种海上无线传感网的机会主义路由协议”, 2021110200860 (国家发明专利, 实质审查)

荣誉与奖励

- 2022 上海市“超级博士后”激励计划
上海市人力资源和社会保障局
- 2022 中国造船工程学会科技进步一等奖
中国造船工程学会
- 2022 上海市通信学会第十九届学术年会优秀论文二等奖
上海市通信学会
- 2022 第二届上海市博士后创新创业大赛优胜奖 (赛事唯一奖项)
上海市人力资源和社会保障局
- 2022 优秀成果奖
论文: RSS-based Byzantine Fault-tolerant Localization Algorithm under NLOS Environment.

- 2021 优秀成果奖
论文: Matrix Factorization based Target Localization via Range Measurements with Uncertainty in Transmit Power.
- 2020 博士研究生国家奖学金
教育部
- 2020 优秀成果奖
论文: A Robust, Non-Cooperative Localization Algorithm in the Presence of Outlier Measurements in Ocean Sensor Networks.
- 2019 国家留学基金
国家留学基金委 (CSC).
- 2019 研究生一等奖学金
上海海事大学研究生院
- 2018 研究生特等奖学金
上海海事大学研究生院
- 2018 上海市优秀毕业生
上海市教育委员会
- 2018 优秀成果奖
论文: A novel cooperative localization algorithm using enhanced particle filter technique in maritime search and rescue wireless sensor network.
- 2017 硕士研究生国家奖学金
教育部
- 2017 优秀学生
上海海事大学
- 2017 特等奖学金
上海海事大学研究生院
- 2016 特等奖学金
上海海事大学研究生院
- 2016 上海市优秀毕业生
上海市教育委员会

学术兼职

- 期刊 **Frontiers in Communications and Networks** 编委 (评审编辑)
- **ISA Transactions (SCI)** 审稿人
- **IEEE Communications Letters (SCI)** 审稿人
- **IEEE Transactions on Signal and Information Processing over Networks (SCI)** 审稿人
- **IEEE Wireless Communications Letters (SCI)** 审稿人

- **IEEE Geoscience and Remote Sensing Letters (SCI) 审稿人**
- **Ocean Engineering (SCI) 审稿人**
- **IEEE Access (SCI) 审稿人**
- **Frontiers in Marine Science (SCI) 审稿人**
- **International Journal of Control, Automation and Systems (SCI) 审稿人**
- **Electronic Letters (SCI) 审稿人**
- **Remote Sensing (SCI) 审稿人**
- **Sensors (SCI) 审稿人**
- **Journal of Marine Science and Engineering (SCI) 审稿人**
- **Journal of Computational Methods in Sciences and Engineering (EI) 审稿人**
- **中国航海 (CSCD) 审稿人**
- **IEEE 会员**