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教育经历

- 2018.09 – 2021.10 上海海事大学 (硕博连续-博士)
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)
专业: 载运工具运用工程
- 2012.09 – 2016.07 上海海事大学 (本科, 3/331)
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

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

已发表/录用论文

1. **X. Mei**, Y. Chen, X. Xu, and H. Wu, "RSS Localization using Multi-step Linearization in the presence of Unknown Path Loss Exponent", (录用, IEEE Sensors Letters, ESCI, EI)

2. 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)
3. **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)
4. **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)
5. **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, 中科院三区, IF: 3.847)
6. **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, 中科院三区, IF: 3.847)
7. 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)
8. 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)
9. 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)
10. 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)
11. 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)
12. 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: 3.57)
13. 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)
14. 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)
 15. 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)
 16. 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)
 17. 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)
 18. 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)
 19. **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*
 20. **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**, D. Han, Y. Chen, H. Wu, and T. Ma, “Target Localization using Information Fusion in WSNs-based Marine Search and Rescue”, (一审, Alexandria Engineering Journal)
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”, (二审, IEEE Wireless Communications Letters)
3. **X. Mei**, D. Han, H. Wu, and A. Pascoal, “Optimal Trajectories of Autonomous Surface Vehicles for Target Localization in Marine Search and Rescue under Outlier Measurements”, (待投)
4. **X. Mei**, D. Han, H. Wu, and J. Xian, “Block Principal Pivoting-based Target Localization with Unknown Transmit Power”, (待投)
5. **X. Mei**, D. Han, H. Wu, and J. Xian, “A Coarse-to-Fine Localization Technique in Wireless Sensor Networks”, (待投)
6. **X. Mei**, D. Han, H. Wu, et al, “Target Localization using Differential Received Signal Strength in Uncertain Environmental Parameter”, (待投)

7. **X. Mei**, D. Han, H. Wu, et al, “A Robust Localization Method in the presence of Uncertain Path Loss Exponent in Underwater Wireless Sensor Networks”, (待投)

专利

- 吴华锋, **梅晓峻**, “一种海上搜救无线传感网协同定位方法”, ZL 201710891573.1.

荣誉与奖励

- 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 Access (SCI)** 审稿人
- **International Journal of Control, Automation and Systems (SCI)** 审稿人
- **Electronic Letters (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

项目

负责人

- 基于量子耦合优化框架的水下传感网目标定位与追踪研究, 2022M712027 (中国博士后基金面上项目)
- 无线传感网在水上交通的运用, 201908310079 (国家留学基金委资助)
- 存在多重不确定性的海洋无线传感网节点定位研究, 2019YBR002 (上海海事大学拔尖人才培养项目)
- 基于改进粒子滤波的海洋监测无线传感网协同定位研究, 2017ycx030 (上海海事大学创新基金项目)

参与

- 北极航道通信导航保障关键技术研究 with 系统研发, 2021YFC2801002 (国家重点研发计划子课题)
- 基于动态自适应成簇的海洋传感网智能数据预测与重构, 52071200 (国家自然科学基金面上项目)
- 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, 51579143 (国家自然科学基金面上项目)
- 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, 18040501700 (上海市科委重点项目)
- 基于无线传感网的海上搜救目标定位关键技术研究, 12SG40 (上海市教委/上海市教育发展基金会 曙光计划)