个人简介

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教育背景

2024.6-至今 青岛港集团有限公司，博士后

2020. 4-2022.12：复旦大学大气科学与海洋系，博士后

2013.09-2018.06：上海海事大学商船学院，博士

2015.09-2016.09：华盛顿大学环境与市政工程系，国家留学基金委公
派博士联合培养

2010.09-2012.07：上海海事大学商船学院，硕士

工作履历

2022.07-至今：上海海事大学物流科学与工程研究院，副教授，博导

2022.11-2023.11 上海海事大学 科技处 处长协理

2018.09-2022.06：上海海事大学物流科学与工程研究院，讲师，硕导

2022.9-2023.6：同济大学交通运输工程学院，高级访问学者

研究领域

1. 视频数据驱动的复杂交通/水上通航环境智能感知与理解

2. 自动化码头 IGV 视觉导航、智能航海

3. 交通大数据建模与分析

4. 交通安全分析

5. 绿色航运、船舶/AGV 能耗管理

个人简介

主研领域为船舶智能航行视觉感知、自动化码头视觉定位与导航、交通大数据挖掘、智能交通视频理解、计算机视觉等。担任 **IET Intelligent Transportation Systems (SCI, JCR Q3)，Measurement & Control (SCI, JCR Q3)、International Journal of Advanced Robotic Systems (SCI)等期刊副主编，Discover Applied Sciences (EI, ESCI)副主编，Journal of Marine Science and Engineering (SCI，JCR Q1)和 Sustainability (SCI)编委，Transportation Safety and Environment（EI, ESCI）编委，Frontiers of Engineering Management 特约通讯专家**，《公路交通科技》青年编委（北大核心）、《交通信息与安全》（北大核心）青年编委，在 IEEE Transactions on Intelligent Transportation Systems 等交通、航运、物流等研究领域的顶级期刊、会议发表论文 100 余篇，其中以第一作者/通信作者发表 SCI 期刊论文 50 余篇，以**第一作者发表 ESI/热点论文 16 篇**，并入选 **2022、2024 年度全球高倍引科学家榜单**。申请和授权美国、加拿大学等国际/国内

发明专利共 20 余项。作为项目负责人承担国家自然科学基金项目面上、青年等纵向/横向课题 10 余项，作为项目组核心成员参与国家自然科学基金重点项目、国家重点研发项目等 10 余项。

部分发表（录用）的论文，*为通信作者：

1. **Xinqiang Chen,** Chenxin Wei, Yang Yang, Lijuan Luo, Salvatore Antonio Biancardo, Xiaojun Mei (2024)**.** "*Personnel trajectory extraction from port-like videos under varied rainy interferences*" IEEE Transactions on Intelligent Transportation Systems, 25(7): 6567-6579. (**1 区 top SCI，ESI 高被引**)

2. **Xinqiang Chen**, Zichuang Wang, Qiaozhi Hua, Wen-long Shang, Qiang Luo, Keping Yu (2023). "*AI-Empowered Speed Extraction via Port-like Videos for Vehicular Trajectory Analysis*" IEEE Transactions on Intelligent Transportation Systems, 24(4): 4541-4552. **(1 区 top SCI, ESI 高被引).**

3. **Xinqiang Chen**, Zhibin Li, Yongsheng Yang, Lei Qi, Ruimin Ke (2021). "*High-Resolution Vehicle Trajectory Extraction and Denoising From Aerial Videos*" IEEE Transactions on Intelligent Transportation Systems, 22(5): 3190-3202. **(1 区 top，ESI 高被引，热点论文，入选 2022 年交通运输重大科技成果库).**

4. **Xinqiang Chen**, Shuhao Liu, Jiansen Zhao, Huafeng Wu*, Jiangfeng Xian, Jakub Montewka. "*Autonomous port management based AGV path planning and optimization via an ensemble reinforcement learning framework* " Ocean & Coastal Management, 251(2024):107087 **(1 区 SCI, ESI 高被引、热点论文)**.

5. **Xinqiang Chen**, Siying Lv, Wen-long Shang, Huafeng Wu, Jiangfeng Xian, Chengcheng Song, "S*hip energy consumption analysis and carbon emission exploitation via spatial-temporal maritime data*" Applied Energy, 2024, 360: 122886 **(1 区 SCI, ESI 高被引、热点)**.

6. **Xinqiang Chen**, Meiling Wang, Jun Ling, Huafeng Wu, Bing Wu, Chaofeng Li. "*Ship imaging trajectory extraction via an aggregated you only look once (YOLO) model*" Engineering Applications of Artificial Intelligence, 130(2024): 1-9 **(1 区 SCI，热点论文).**

7. **Xinqiang Chen**, Shuting Dou, Tianqi Song, Huafeng Wu, Yang Sun*, Jiangfeng Xian, (2024). "*Spatial-Temporal Ship Pollution Distribution Exploitation and Harbor Environmental Impact Analysis via Large-Scale AIS Data*". Journal of Marine Science and Engineering, 12(6): 1-17 **(2 区 SCI，ESI 高被引、热点).**

8. **Xinqiang Chen**, Dongfang Ma, Wen Ryan Liu, (2024). "*Application of Artificial Intelligence in Maritime Transportation*". Journal of Marine Science and Engineering 12(3): 439 **(2 区 SCI，ESI 高被引).**

9. **Xinqiang Chen**, Shuhao Liu, Wen Liu, Huafeng Wu*, Bing Han, Jiansen Zhao. (2022)"*Quantifying Arctic oil spilling event risk by integrating analytic network process and fuzzy comprehensive evaluation model*" Ocean & Coastal Management, 228: 106326. **(1 区 SCI, ESI 高被引).**

10. **Xinqiang Chen**, Jun Ling, Shengzheng Wang, Yongsheng Yang, Lijuan Luo, Ying Yan (2021). "*Ship Detection from Coastal Surveillance Videos via an Ensemble Canny-Gaussian-Morphology Framework*" Journal of Navigation, 74(6): 1252-1266. **(2 区 SCI，热点论文).**

11. **Xinqiang Chen,** Huixing Chen, Yongsheng Yang, Huafeng Wu, Wenhui Zhang, Jiansen Zhao, Yong Xiong (2021). "*Traffic flow prediction by an ensemble framework with data denoising and deep learning model*" Physica A: Statistical Mechanics and its Applications, 565(2021), 1-11. **(2 区 SCI, ESI 高被引).**

12. **Xinqiang Chen**, Yongsheng Yang, Shengzheng Wang, Huafeng Wu, Jinjun Tang, Jiansen Zhao, Zhihuan Wang (2020). "*Ship Type Recognition via a Coarse-to-Fine Cascaded Convolution Neural Network*", Journal of Navigation, 73(4), 813-832. **(2 区 SCI, ESI 高被引).**

13. **Xinqiang Chen**, Lei Qi, Yongsheng Yang, Qiang Luo, Octavian Postolache, Jinjun Tang, Huafeng Wu (2020). "*Video-Based Detection Infrastructure Enhancement for Automated Ship Recognition and Behavior Analysis*", Journal of Advanced Transportation, 2020, 1-12. **(3 区 SCI, ESI 高被引).**

14. **Xinqiang Chen**, Xueqian Xu, Yongsheng Yang, Huafeng Wu, Jinjun Tang, Jiansen Zhao (2020). "*Augmented Ship* Tracking *under Occlusion Conditions*

From Maritime Surveillance Videos" IEEE ACCESS, 8(1), 42884-42897. **(2 区 SCI, ESI 高被引).**

15. **Xinqiang Chen**, Shubo Wu, Chaojian Shi et al. (2020). "*Sensing Data Supported Traffic Flow Prediction via Denoising Schemes and ANN: A Comparison*" IEEE Sensors Journal, 20(23), 14317-14328. **(SCI, ESI 高被引，2 区).**

16. **Xinqiang Chen***, Shengzheng Wang, Chaojian Shi, Huafeng Wu, Jiansen Zhao, Junjie Fu (2019). "*Robust ship tracking via multi-view learning and sparse representation*", Journal of Navigation, 72(1), 176-192. **(2 区 SCI，ESI 高被引，入选 2021 年交通运输重大科技成果库).**

17. Guangnian Xiao, Tian Wang, **Xinqiang Chen***, Lizhen Zhou. "*Evaluation of Ship Pollutant Emissions in the Ports of Los Angeles and Long Beach*" Journal of Marine Science and Engineering, 2022, 10(9): 1206 **(SCI, 热点论文).**

18. **Xinqiang Chen**, Weiping Chen, Bing Wu, Huafeng Wu, Jiangfeng Xian. "*Ship visual trajectory exploitation via an ensemble instance segmentation framework*" Ocean Engineering, 313(2024), 119368 **(1 区 SCI).**

19. **Xinqiang Chen,** Jinbiao Zheng, Chaofeng Li, Bing Wu*, Huafeng Wu, Jakub Montewka (2024). "*Maritime traffic situation awareness analysis via high-fidelity ship imaging trajectory*" Multimedia tools and applications, (2024)83:48907-48923 **(2 区 SCI).**

20. **Xinqiang Chen**, Hao Wu, Bing Han, Wei Liu, Jakub Montewka, Ryan Wen Liu*. "*Orientation-aware ship detection via a rotation feature decoupling supported deep learning approach*" Engineering Applications of Artificial Intelligence, 125(2023), 1-16 **(1 区 SCI).**

21. **Xinqiang Chen,** Chenxin Wei, Zhengang Xin, Jiansen Zhao*, Jiangfeng Xian (2023). *" Ship Detection under Low-Visibility Weather Interference via an Ensemble Generative Adversarial Network "* Journal of Marine Science and Engineering, 1-17. **(2 区 SCI).**

22. **Xinqiang Chen**, Xingyu Wu, Dilip K. Prasad, Bing Wu*, Octavian Postolache, Yongsheng Yang (2022). "*Pixel-wise Ship Identification from Maritime Images*

via a Semantic Segmentation Model" IEEE Sensors Journal, 22(18):18180-18191. **(2 区 SCI).**

23. **Xinqiang Chen**, Chenxin Wei, Guiliang Zhou, Huafeng Wu, Zhengyi Wang, Salvatore Antonio Biancardo. (2022) "*Automatic Identification System (AIS) Data Supported Ship Trajectory Prediction and Analysis via a Deep Learning Model*" Journal of Marine Science and Engineering, 10(9):1314 **(2 区 SCI).**

24. **Xinqiang Chen,** Huixing Chen, Xianglong Xu, Lijuan Luo, Salvatore Antonio Biancardo (2022). "*Ship tracking for maritime traffic management via a data quality control supported framework*" Multimedia tools and applications, 81(5):7239-7252. **(2 区 SCI).**

25. **Xinqiang Chen**, Chen Chen, Huafeng Wu, Octaivan Postolache, Yuzheng WU (2025). "*An improved artificial potential field method for multi-AGV path planning in ports*" Intelligence & Robotics, 2025(5):19-33. (ESCI)

26. **陈信强**，陈建慧，刘恕浩，韩冰，赵建森，李朝锋 (2024). "*基于语义分割和霍夫变换的可见光图像海天线检测方法*" 中国航海, 47(4): 65-72. **(北大核心，CSCD 扩展).**

27. **陈信强**，戴锦宇，韩冰等. "考虑岸桥缓存区和能耗节约的 AGV 协同调度研究 " 中国航海, 2024, 47(3):72-80. **(北大核心，CSCD 扩展).**

28. **陈信强**，高原，赵建森等(2024). "*基于Chebnet-LSTM 的区域船舶交通流量预测*"上海海事大学学报, 45(1): 32-38 **(北大核心).**

29. **陈信强**，王美琳，李朝锋，杨洋，梅骁峻 (2023). "*基于深度学习与多级匹配机制的港区人员轨迹提取*"交通运输系统工程与信息, 23(4): 70-79. **(EI).**

30. *陈信强*，史飞翔，王梓创等 (2022). "*基于模糊逻辑方法的多船会遇安全态势评估* " 广西大学学报(自然科学版), 47(5): 1327-1336 **(北大核心).**

31. **陈信强，**郑金彪，凌峻等 (2022)**.** "*基于异步交互聚合网络的港船作业区域人员异常行为识别*" 交通信息与安全, 40(2): 22-29 **(北大核心，CSCD 扩展)**.

32. **陈信强**，徐祥龙，彭静等 (2022). "*基于Douglas-Peucker和Quick Bundles算法的水上交通模式识别*"上海海事大学学报, ,43(03):1-6.**(北大核心)**.

33. **陈信强**，郑金彪，陈伟平等(2022). "*新时代"智能交通系统"课程改革研究*"科教导刊, 32: 130-132. **(教改论文)**

34. **Xinqiang Chen**, Xueqian Xu, Yongsheng Yang, et al. (2021). "*Visual Ship Tracking via a Hybrid Kernelized Correlation Filter and Anomaly Cleansing Framework*" Applied Ocean Research, 106(2021), 1-10. **(1 区 SCI)**.

35. **陈信强，**凌峻, 齐雷等(2021). "多特征融合和尺度变化估计的船舶跟踪方法"，计算机工程与应用, 57(13), 246-250 **(北大核心，CSCD 扩展)**.

36. **Xinqiang Chen,** Jun Ling, Yongsheng Yang et al. (2020). "*Ship Trajectory Reconstruction from AIS Sensory Data via Data Quality Control and Prediction*" Mathematical Problems in Engineering, 2020, 1-9. **(4 区 SCI)**.

37. **Xinqiang Chen**, Jinquan Lu, Jiansen Zhao et al. (2020). "*Traffic Flow Prediction at Varied Time Scales via Ensemble Empirical Mode Decomposition and Artificial Neural Network*" Sustainability, 12(9), 1-17. **(3 区 SCI)**.

38. **Xinqiang Chen**, Huixing Chen, Huafeng Wu, et al. (2020). "*Robust Visual Ship Tracking with an Ensemble Framework via Multi-View Learning and Wavelet Filter*" Sensors, 20(3), 1-17. **(2 区 SCI)**.

39. **Xinqiang Chen**, Zhibin Li, Yinhai Wang, et al. (2018). "*Anomaly Detection and Cleaning of Highway Elevation Data from Google Earth Using Ensemble Empirical Mode Decomposition*", Journal of Transportation Engineering, Part A: Systems, 144(5), 1-14. **(4 区 SCI)**.

40. **Xinqiang Chen**, Zhibin Li, Yinhai Wang, et al. (2017). "*Evaluating the impacts of grades on vehicular speeds on interstate highways*", PloS one, 12(9), 1-15. **(3 区 SCI).**

41. Yuqing Wang, **Xinqiang Chen***, Yuzhen Wu, Jiansen Zhao, Octavian Postolache, Shuhao Liu. Visual Navigation Systems for Maritime Smart Ships: A Survey. Journal of Marine Science and Engineering. 2024; 12(10):1781 **(2 区 SCI).**

42. Shubo Wu, **Xinqiang Chen***, Chaojian Shi, et al (2022). "*Ship Detention Prediction via Feature Selection Scheme and Support Vector Machine (SVM)*" Maritime Policy & Management, 49(1):140-153. **(2 区 SCI).**

43. Junjie Fu, **Xinqiang Chen***, Shubo Wu, et al. (2020). "*Ship Detention Situation Prediction via Optimized Analytic Hierarchy Process and Naive Bayes Model*" Mathematical Problems in Engineering, 2020, 1-11. **(SCI).**

44. Junjie Fu, **Xinqiang Chen***, Shubo Wu*, et al. (2020). "*Mining Ship Deficiency Correlations from Historical Port State Control (PSC) Inspection Data*" PloS one, 15(2), 1-19. **(SCI).**

45. Xueqian Xu, **Xinqiang Chen**, Bing Wu, et al. "*Exploiting high-fidelity kinematic information from port surveillance videos via a YOLO-based framework*" Ocean & Coastal Management, 222(2022): 1-10. **(1 区 SCI).**

46. Shibo Li, Jiajun Xu, **Xinqiang Chen***, Yajie Zhang, Yiwen Zheng, and Octavian Postolache. "*Maritime Traffic Knowledge Discovery via Knowledge Graph Theory*" Journal of Marine Science and Engineering, 12(12), 1-21. **(2 区 SCI).**

47. Yang Sun, Chengyang Hou, **Xinqiang Chen***, Yanhao Wang, Lihao Dai, Qinyou Hu (2024). Accident black spot clustering oriented maritime search and rescue resource allocation and optimization. Frontiers in Marine Science, 11, 1-18. **(1 区 SCI).**

48. Yang Sun, Jun Ling, **Xinqiang Chen***, et al. "*Exploring Maritime Search and Rescue Resource Allocation via an Enhanced Particle Swarm Optimization Method*" Journal of Marine Science and Engineering, 2022, 10 (7): 1-14. **(2 区 SCI).**

49. Jiansen Zhao, Zhongwei Yan, **Xinqiang Chen***, et al. " *k-GCN-LSTM: A k-hop Graph Convolutional Network and Long Short-Term Memory for ship speed prediction*" Physica A: Statistical Mechanics and its Applications, 606(2022), 1-14 **(2 区 SCI).**

50. Jiansen Zhao, Lingjun Kong, **Xinqiang Chen***, et al. "Experimental Study on a Self-phase-shifting Cross Vibrator Plasma Antenna Array" IEEE Antennas and Wireless Propagation Letters, 2022, 21 (7): 1343-1347. **(2 区 SCI).**

51. Hu Liu, Xueqian Xu, **Xinqiang Chen***, et al. "Real-time ship tracking under challenges of scale variation and different visibility weather conditions" Journal of Marine Science and Engineering, 2022, 10(3): 1-16. **(2 区 SCI).**

52. Jiansen Zhao, Jinquan Lu, **Xinqiang Chen***, et al. "*High-Fidelity data supported Ship Trajectory Prediction via an Ensemble Machine Learning Framework*" Physica A: Statistical Mechanics and its Applications, 586(2022), 1-10. **(2 区 SCI).**

53. Jinjun Tang, Jin Hu, Wei Hao, **Xinqiang Chen*,** et al. "*Markov Chains based route travel time estimation considering link spatio-temporal correlation*" Physica A: Statistical Mechanics and its Applications, 545(2020), 1-13. **(2 区 SCI).**

54. Qiang Luo, Jie Yuan, **Xinqiang Chen***, et al. "*Analyzing start-up time headway distribution characteristics at signalized intersections*", Physica A: Statistical Mechanics and its Applications, 535(2019), 1-10. **(2 区 SCI).**

55. Zhijian Qu, Xubing Sun, **Xinqiang Chen***, et al. (2019). "*A novel RFID multi-tag anti-collision protocol for dynamic vehicle identification*" PloS one, 14(7), 1-25. **(3 区 SCI).**

56. Zhijian Chen, Jiqiang Zhao*, **Xinqiang Chen*** (2024). "*The Interaction and Sustainable Efficiency Between Tourism Systems and the Energy –Economy– Environment System: A Novel Parallel Network Super-Efficiency Slacks-Based Measure Model*" Sustainability, 16(23): 10520. **(2 区 SCI).**

57. Qiang Luo, Xiaodong Zang, Jie Yuan*, **Xinqiang Chen***, et al. (2020). "Research of Vehicle Rear-End Collision Model considering Multiple Factors" Mathematical Problems in Engineering, 2020, 1-11. **(4 区 SCI).**

58. Qiang Luo, Jie Yuan*, **Xinqiang Chen***, et al. (2019). "*Research on mixed user equilibrium model based on mobile internet traffic information service*" IEEE ACCESS, 7, 164775-164791. **(2 ⊠ SCI).**

59. Jinjun Tang, Fan Gao, Fang Liu, **Xinqiang Chen*** (2020). "*A Denoising Scheme-Based Traffic Flow Prediction Model: Combination of Ensemble Empirical Mode Decomposition and Fuzzy C-means Neural Network*" IEEE ACCESS, 8, 11546-11559. **(2 ⊠ SCI).**

60. Jiansen Zhao, Yanjun Chen, Zhenzhen Zhou, Jingying Zhao, Shengzhegn Wang, **Xinqiang Chen*** (2023). " *Multiship Speed Measurement Method Based on Machine Vision and Drone Images*" IEEE Transactions on Instrumentation and Measurement, 72:1-12. **(1 ⊠ SCI).**

61. Qiang Luo, **Xinqiang Chen**, Jie Yuan, et al. (2020). "Study and Simulation Analysis of Vehicle Rear-End Collision Model considering Driver Types" Journal of Advanced Transportation, 2020, 1-11. **(3 ⊠ SCI).**

62. Jinjunn Tang, **Xinqiang Chen**, Zheng Hu, et al. "*Traffic flow prediction based on combination of support vector machine and data denoising schemes*" Physica A: statistical mechanics and its applications, 534(2019), 1-19. **(2 ⊠ SCI).**

63. Yang Sun, **Xinqiang Chen**, Jun Ling, et al. (2021), "Ship trajectory cleansing and prediction with historical ais data using an ensemble ANN framework" International journal of innovative computing information and control, 17(2): 443-459. (EI)

64. RyanWen Liu, Yuanqiao Wen, **Xinqiang Chen**, et al. (2021). "An enhanced CNN-enabled learning method for promoting ship detection in maritime surveillance system," Ocean Engineering, vol. 235, p. 109435. **(1 ⊠ SCI).**

65. Jinjun Tang, Shen Zhang, **Xinqiang Chen**, et al. "*Taxi trips distribution modeling based on Entropy-Maximizing theory: A case study in Harbin city-China*" Physica A: Statistical Mechanics and its Applications, 493(2018), 430-443. **(2 ⊠ SCI).**

66. Jiansen Zhao, **Xinqiang Chen**, Shengzheng Wang, et al. (2018). "*A Study of the Characteristics of a Deformable Antenna Based on Gas Discharge*" IEEE Transactions on Antennas and Propagation, 66(1), 59-70. **(1 ⊠ SCI).**

67. Huafeng Wu, Xiaojun Mei, **Xinqiang Chen**, et al. "*A novel cooperative localization algorithm using enhanced particle filter technique in maritime search and rescue wireless sensor network*" ISA transactions, 78(2018), 39-46. **(2 ☒ SCI).**

68. Haoyang Yan, Zhiyong Cui, **Xinqiang Chen**, et al. (2022). "*Distributed Multi-Agent Deep Reinforcement Learning for Multi-line Dynamic Bus Timetable Optimization*" IEEE Transactions on Industrial Informatics, 2022, 1-10. **(1 ☒ SCI).**

69. Jiangfeng Xian, Huafeng Wu, Xiaojun Mei, **Xinqiang Chen**, Yongsheng Yang (2022). "*Low-Delay and Energy-Efficient Opportunistic Routing for Maritime Search and Rescue Wireless Sensor Networks*" Remote Sensing, 14(20), 1-16 **(2 ☒ SCI).**

70. Zhijian Qu, Hanxin Liu, Hailin Wang, **Xinqiang Chen**, et al. (2020). "*Cluster equilibrium scheduling method based on backpressure flow control in railway power supply systems*" PLoS ONE, 15(12): 1-23. **(3 ☒ SCI).**

71. Salvatore Antonio Biancardo, Francesco Avella, Ernesto Di Lisa, **Xinqiang Chen**, et al. (2021). "*Multiobjective Railway Alignment Optimization UsingBallastless Track and Reduced Cross-Section in Tunnel*" Sustainability, 13(19): 1-19, **(3 ☒ SCI).**

72. Ruyi Feng, Changyan Fan, Zhibin Li, **Xinqiang Chen** (2020). "*Mixed Road User Trajectory Extraction from Moving Aerial Videos based on Convolution Neural Network Detection*" IEEE ACCESS, 8, 43508-43519 **(2 ☒ SCI).**

73. Jinjun Tang, Shaowei Yu, Fang Liu, **Xinqiang Chen**, et al. (2019). "*A hierarchical prediction model for lane-changes based on combination of fuzzy C-means and adaptive neural network*" Expert Systems with Applications, vol. 130: 265-275. **(1 ☒ SCI).**

74. Wenhui Zhang, Yongmin Su, Ruimin Ke, and **Xinqiang Chen** (2018). "*Evaluating the influential priority of the factors on insurance loss of public transit*" PloS one, 13(1): 1-11. **(3 ☒ SCI).**

75. Jiangfeng Xian, Huafeng Wu, Xiaojun Mei, Yuanyuan Zhang, **Xinqiang Chen**, Qiannan Zhang, Linian Liang (2022). "*Novel Energy-Efficient Opportunistic Routing Protocol for Marine Wireless Sensor Networks Based on Compressed*

Sensing and Power Control" Journal of Ocean University of China, 21, 1504-1516 **(3 区 SCI)**.

76. 阎莹，周墨，袁华智，董帅，**陈信强** (2024). "融合机器学习与有序 Logistic 模型的无信控人车过街交互模式识别和安全分析"，中国公路学报，37(10): 171-183. **(EI，CSCD 核心)**.

77. Jiansen Zhao, Yanjun Chen, Zhenzhen Zhou, Jingying Zhao, Shengzheng Wang, **Xinqiang Chen** (2022). "*Extracting Vessel Speed Based on Machine Learning and Drone Images during Ship Traffic Flow Prediction*" Journal of Advanced Transportation, 2022, 1-12 **(3 区 SCI)**.

78. Jiansen Zhao, Shengzheng Wang, Huafeng Wu, Yue Liu, Yongmeng Chang, *and* **Xinqiang Chen** (2017). "*Flexible plasma linear antenna*" Applied Physics Letters, 110(9): 094108. **(2 区 SCI)**.

部分会议论文及受邀请的报告：

1. **Xinqiang Chen**, "Autonomous ship navigation oriented visual perception technique exploitation"，人工智能与自主式交通国际学术会议 (AIAT 2024) 分论坛报告，2024 年 12 月，北京

2. **Xinqiang Chen**, "*Intelligent Traffic situation Awareness and Knowledge discovery for Smart Shipping Era*", 4th International symposium on Sensing and Instrumentation in IoT era (ISSI 2024)，**大会主题报告**，2024 年 8 月，Azores, Portugal

3. **Xinqiang Chen**, "*Research on Intelligent Shipping Perception Driven by Multi source and Multimodal Maritime Data*", 24th COTA International Conference of Transportation Professionals (CICTP 2024)，2024 年 7 月，深圳，分论坛报告

4. **Xinqiang Chen**, "*Visual Navigation and Traffic Situation Awareness for Smar Shipping*", 3rd International Conference on Robotics, Artificial Intelligence and Intelligent Control (RAIIC 2024)，2024 年 7 月，绵阳，分论坛报告

5. **Xinqiang Chen**, Shuhao Liu, Chaofeng Li, et al., "*AGV path planning and optimization with deep reinforcement learning model*" 2023 7th International Conference on Transportation Information and Safety (ICTIS), Xi'an, China, 2023, pp. 1859-1863.

6. **Xinqiang Chen,** Siying Lv, Bing Wu, et al., "*Ship Energy Efficiency Operation Index Variation Analysis Via Empirical Voyage Data*" 2023 7th International Conference on Transportation Information and Safety (ICTIS), Xi'an, China, 2023, pp. 1957-1961.

7. **Xinqiang Chen,** Chenxin Wei, Yongsheng Yang, et al., "*Robust Port Staff Trajectory Extraction under Adverse Visibility Challenges*" The 23nd COTA International Conference of Transportation Professionals (CICTP), Beijng, China, 2023, pp. 50-55.

8. **Xinqiang Chen**, Weiping Chen, Yongsheng Yang, et al., "*High-fidelity ship imaging trajectory extraction via an instance segmentation model*" 2022 International Symposium on Sensing and Instrumentation in 5G and IoT Era (ISSI), Shanghai, China, 2022, pp. 165-169, doi: 10.1109/ISSI55442.2022.9963190.

9. **陈信强，**"智慧水运视角下的车-港-船一体化交通态势感知研究"，第三届 交通运输物流创新发展大会暨全国运输与物流学术（科技）年会，2022 年 8 月，高校青年学者论坛特邀报告

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1. 国家自然科学基金（面上项目），面向自主航行的水上交通态势主动认知与统一表达研究，2025/01-2028/12，主持.

2. 国家自然科学基金（青年项目），通航环境混合干扰的船舶图像航迹跟踪研究，2022/01-2024/12，主持.

3. 中国博士后基金，复杂通航环境干扰下的高精度船舶跟踪机理研究，2022-2023，主持，结题.

4. 水路交通控制全国重点实验室开放课题，基于随机最优的船舶自主航行智能策略研究，2025/01-2025/12，**主持**．

5. 绿色物流智能技术重庆市重点实验开放基金（重点项目），面向港船协同控制的港航物流系统韧性研究——以船舶自主决策及航线优化为例，2024/11-2025/10，**主持**．

6. 智能机器人江西省重点实验室开放课题（一般项目），基于多模态数据融合的船舶自主航行与智能决策研究，2025/1-2026/12，**主持**．

7. 交通运输部东海航海保障中心，IALA 国际航标协会事务跟踪研究，2024/6-2024/12，**主持，结题**

8. 上海船舶运输科学研究所有限公司，高精度图像航迹数据驱动的船舶智能航行通航态势感知与分析研究，2022/1-2023/12，**主持，结题**．

9. 交通运输部东海航海保障中心，水上安全通信技术数字化发展研究，2023/8-2023/12，**主持，结题**

10. 国家水运安全工程技术研究中心开放基金，2022，**主持，结题**．

11. 江苏省交通运输与安全保障重点建设实验室开放基金，2022/01-2023/12，**主持，结题**．

12. 内河航运技术湖北省重点实验室开放基金，2022/01-2023/12，**主持，结题**．

13. 上海海事大学，控制科学与工程研究生重点课程任务，2020-2021，**主持，结题**．

14. 上海市教委，上海高校青年教师培养资助计划，2019，**主持，结题**．

15. 上海海事大学，国际专利（PCT）培育基金， 2019，**主持，结题**．

16. 国家自然科学基金，海洋传感网三维动态定位与数据高效传输关键技术研究，30 万，2023.1-2025.12，30 万，在研，**第二参与人**．

17. 国家自然科学基金，基于量子优化框架的海洋传感网鲁棒性定位与追踪研究，30 万，2023.1-2025.12，30 万，在研，**第二参与人**．

18. 上海市晨光计划，海洋立体观测网数据鲁棒高效传输关键技术研究，2024.1-2025.12，在研，**第二参与人**．

19. 中国博士后科学基金会，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，2022.6-2024.6，8 万，在研，**第二参与人**．

20. 上海市科学技术委员会，基于 AIS 数据的港口水域船舶交通流量预测，2023.3-2024.2，在研，**第三参与人**．

21. 上海市科学技术委员会，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，2023.1-2025.12，在研，**第四参与人**．

22. 国家重点研发计划，北极航道船舶航行导航优化技术及应用系统研发，2021/01-2024/12，60 万，在研，参加．

23. 国家重点研发计划，北极航道通信导航保障关键技术研究与系统研发，2021/01-2024/12，20 万，在研，参加．

24. 国家自然科学基金面上项目，52072237，事故信息不完备环境下水上交通救援资源调控研究，2021/01-2024/12，60万，在研，参加.

25. 国家山区公路工程技术研究中心，高速公路特殊路段主动安全防控技术与装备，2022/01-2023/06，29万，在研，参加.

26. 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，2021/01-2024/12，58万，在研，参加.

27. 国家自然科学基金青年科学项目，51709167，船载北斗多面化、可控式四臂螺旋天线阵列性能调控机理研究，2018/01-2020/12，22万，结题，参加.

28. 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，2016/01-2019/12，63万，结题，参加.

29. 美国联邦公路局资助项目：Highway Grade Characterization and Operating Efficiency Methods, Tools and Data Development，36万（美金），已结题，参加.

部分期刊客座编辑：

- IET Intelligent Transport Systems 期刊特刊：Innovations in Shipping Industry: AI-supported resilient and smart multi-modal transportation development，2024年10月至2025年8月，首席客座编辑 (SCI，JCR Q1)
- Journal of Marine Science and Engineering 期刊特刊：Smart and Low Carbon Emission-Oriented Maritime Traffic Management and Controlling，2023年12月至2025年6月，首席客座编辑 (SCI，JCR Q1)
- Sustainability 期刊特刊：Sustainable and Smart Traffic Variation, Development and Analysis toward Multi-model and Multi-source Data，永久有效 (SCI，JCR Q2)
- IEEE Open Journal of Intelligent Transportation Systems 期刊特刊：Transport Research Supported by Remote Sensing Data，2024年4月至2024年10月，客座编辑 (EI)
- Journal of Marine Science and Engineering 期刊特刊：Application of Artificial Intelligence in Maritime Transportation，2022年6月至2023年12月，首席客座编辑 (SCI，JCR Q1)
- Journal of Advanced Transportation 期刊特刊： Transportation Traffic Safety Analysis and Prevention via Multiple Data Sources and Artificial Intelligence Techniques，2020年9月至2021年9月，首席客座编辑 (SCI，JCR Q3)
- Applied Sciences-Basel 期刊特刊：Transportation Big Data and Its Applications，2021年7月至2023年5月，客座编辑 (SCI，JCR Q2)

部分学术荣誉及兼职：

- Measurement and Control(SCI, JCR Q3)副主编（2024-）
- IET Intelligent Transportation Systems (SCI, JCR Q3)副主编（2024-）
- International Journal of Advanced Robotic Systems (SCI)副主编（2024-）

- Discover Applied Sciences (EI, ESCI)副主编（2024-）
- Journal of Shipping and Ocean Engineering 副主编（2023-）
- Transportation Safety and Environment（EI, ESCI）编委（2024-2026）
- Frontiers of Engineering Management 特约通讯专家（2025-2027）
- Journal of Marine Science and Engineering (SCI，JCR Q1)编委（2024-）
- Sustainability (SCI)编委（2024-, JCR Q2）
- Intelligence & Robotics 青年编委（2024-）
- Journal of Marine Science and Engineering (SCI)客座编辑 （2022-2024）
- Journal of Advanced Transportation (SCI)客座编辑 （2021）
- Sensors (SCI) 客座编辑 （2021）
- Applied Sciences (SCI)客座编辑（2021）
- Sustainability (SCI) 客座编辑 （2020）
- Sustainable Horizon 期刊青年编委
- Frontier in Future Transportation 客座编辑（2021）
- 《公路交通科技》青年编委（北大核心期刊，CSCD 权威期刊）
- 《交通信息与安全》第九届编委会青年编委（北大核心期刊，CSCD 扩展版）
- 《佳木斯大学学报（自然科学版）》青年编委
- 入选 **2022、2024 年爱思唯尔全球前 2%顶尖科学家榜单**
- 国际交通科技年会 Area Editor （获 **CICTP 2020-21 最佳区域编辑**）
- 国际交通科技年会(CICTP 2022)交通资产管理分论坛主持人（2022）
- "河海联运学术研讨会"国际会议智能化水运系统设计与管理分论坛主持人（2022）
- "第三届长江研究与创新协同平台"国际会议信息技术的高级应用分论坛主持人（2020）
- 国家自然科学基金评审专家（工程与材料学部）
- 黑龙江省大学生交通科技大赛评审专家（2021，2022）
- 船舶运输控制系统国家工程研究中心常驻专家（2018-2023）
- 第十三届全国交通运输领域青年学术会议优秀论文（10%, 2019）
- SSCI 国际期刊 Maritime Policy & Management 杰出审稿人.
- SCI 国际期刊 Journal of King Saud University-Computer and Information Sciences 杰出审稿人.
- 美国交通运输研究委员会（TRB）AW010(3) 分委会成员（AW010(3) Subcommittee on Port Performance）
- The 8th International Conference on Computer and Communication Systems, Computer vision and Image Analysis 技术委员会委员，分论坛主持人 (2023)

- 2018、2019、2020 年世界运输大会（WTC 2018, 2019, 2020）学术委员会成员
- 2018 年 International Conference on Data Science and Business Analytics（ICDSBA 2018）国际会议技术委员会委员.
- 2018 年 International Conference on Sensing and Instrumentation in IoT Era (ISSI 2018, ISSI 2019, ISSI 2022) 国际会议技术委员会委员.