

# MOZI CHEN

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## EDUCATION

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**Wuhan University of Technology, Wuhan, Hubei, P.R. China** *September 2016 - Present*

Ph.D, School of Navigation

Advisor: Kezhong Liu

**The University of Texas at Dallas, Richardson, TX, USA** *November 2017 - November 2018*

Visiting Ph.D Student, Department of Computer Science.

Advisor: Cong Liu

**Wuhan University of Technology, Wuhan, Hubei, P.R. China** *September 2013 - June 2016*

M.S. in School of Navigation

**Hubei University of Technology, Wuhan, Hubei, P.R. China** *September 2009 - June 2013*

Bachelor, School of Electronic Engineering.

## RESEARCH INTERESTS

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**Cyber-Physical Systems**, in particular, wireless indoor localization, RF-based activity sensing and emergency navigation.

**Intelligent Transportation System**, in particular, wireless ship networking and ship AIS(Automatic Identification System) data analytics.

## GRANTS / PROJECTS

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- Project title: **Research on Wireless Indoor Localization Methods towards Shipboard Dynamic Environments**  
Funding organization: National Natural Science Foundation of China (NSFC)  
Principal and co-investigator(s) as listed on title page: Mozi Chen (Co-investigator)  
Start date - stop date: 01/01/2020 - 12/31/2023
- Project title: **Research on Inland River Passengers' Position Perception and Emergency Evacuation Methods**  
Funding organization: Major Project for the Technology Innovation of Hubei Province, China,  
Principal and co-investigator(s) as listed on title page: Mozi Chen (Co-investigator)  
Start date - stop date: 06/01/2017 - 05/31/2020
- Project title: **Research on Multi-scale Indoor Wireless Localization Method in Shipboard Environment**  
Funding organization: Fundamental Research Funds for the Central Universities  
Principal and co-investigator(s) as listed on title page: Mozi Chen (Sole PI)  
Start date - stop date: 03/01/2017 - 05/31/2019

## PUBLICATIONS

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2020 **Mozi Chen**, Kezhong Liu, Jie Ma, Xuming Zeng, Zheng Dong, Guangmo Tong and Cong Liu, *MoLoc: Unsupervised Fingerprint Roaming for Device-free Indoor Localization in a Mobile Ship Environment*, IEEE Internet of Things Journal (IOTJ). To appear

- 2019 **Mozi Chen**, Kezhong Liu, Jie Ma, Yu Gu, Zheng Dong and Cong Liu, *SWIM: Speed-aware WiFi-based Passive Indoor Localization for Mobile Ship Environment*, IEEE Transactions on Mobile Computing (TMC).
- 2018 **Mozi Chen**, Kezhong Liu, Jie Ma and Cong Liu, *Spatio-temporal Fingerprint Localization for Shipboard Wireless Sensor Networks*, IEEE Sensors Journal.
- Kezhong Liu, **Mozi Chen\***, E cai, Jie Ma and Shoujun Liu, *Indoor Localization Strategy Based on Fault-tolerant Area Division for Shipboard Surveillance*, Automation in Construction. (\*Corresponding author)
  - Jiahao Chen, Kezhong Liu, **Mozi Chen** and Jie Ma, *Intrusion detection method of ships sensitive regions based on channel state information*, Journal of Dalian Maritime University.
- 2017 Yang Zhuang, Kezhong Liu, **Mozi Chen**, Jie Ma, *Study on Node Sensing Confidence Model in Shipboard Sensor Network*, Navigation of China.
- Zhao Hu, Kezhong Liu, **Mozi Chen** and Jie Ma, *A multi-scale indoor localization method for shipboard environment*, In proceedings of the 4th International Conference on Transportation Information and Safety (ICTIS).
- 2016 **Mozi Chen**, Jie Ma, Kezhong Liu, Zhao Hu, *Study on shipboard pedestrian localization method based on WSN*, Symposium on Cross-Strait Maritime Risk Management & Assessment.
- 2015 Kezhong Liu, Yihang Xie, **Mozi Chen** and Jie Ma, *Ship-board pedestrian positioning method by integrating Dead Reckoning and Wireless Sensor Networks*, In proceedings of the International Association of Institutes of Navigation World Congress.
- Working! **Mozi Chen**, Kezhong Liu, Jie Ma, Xuming Zeng, Cong Liu, Guangmo Tong and Zheng Dong, *DiFS: WiFi-based Directed Fresnel Signature Localization for Dynamic Ship Environment*, IEEE Transactions on Mobile Computing (TMC).
- Yuting Ma, Kezhong Liu, **Mozi Chen**, Jie Ma, Xuming Zeng, Kehao Wang, Zheng Dong and Cong Liu, *A Novel Adaptive Emergency Navigation Method for Ship Indoor Environment*, IEEE Access.
  - Xuming Zeng, Kezhong Liu, Jie Ma, **Mozi Chen** and Ming Yu, *Reliability and Delay Trade-off Analysis of Unslotted IEEE 802.15.4 Sensor Network for Shipboard Environment*, IEEE Sensors Journal.

## HONORS & AWARDS

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**Excellent Student Scholarship**, Wuhan University of Technology, 2019

**Postgraduate Study Abroad Funding**, China Scholarships Council (CSC), 2018

**Excellent Student Scholarship**, Wuhan University of Technology, 2017

**Outstanding Doctoral Dissertation Funding**, Wuhan University of Technology, 2017

**Excellent Student Scholarship**, Wuhan University of Technology, 2016

## LECTURES

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**Ship Networking and Data Mining**

*Indoor Localization & Navigation - Guest Lecturer*

WUT

*Graduate Course - Fall 2019*

**Introduction of Academic papers and writing**

*Sole Instructor*

WUT

*Graduate Course - Spring 2019*

## SKILLS

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<b>Programming</b>	<i>C, MATLAB, Python</i>
<b>System Frameworks</b>	<i>ROS (Robot Operating System), GNU Radio</i>
<b>Neural Networks</b>	<i>Tensorflow, Keras</i>
<b>Platforms</b>	<i>NVIDIA Jetson TX2, USRP N210</i>
<b>Miscellaneous</b>	<i>love teamwork and very passionate about research.</i>

## SERVICE

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**Journal Reviewer:** IEEE Sensors Journal, Journal of Navigation.