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**Scientific title:** Professor with the Department of Marine Navigation, Shanghai Maritime University, Shanghai.

**Studies: 1995-** bachelor's degree in marine navigation 's degree in marine navigation ; 2003-Ph.D. degree in computer science ; 1999, he obtained a Master's degree in Traffic Information Engineering and Control from Shanghai Maritime University; 2003-Ph.D. degree in computer science from Fudan University, Shanghai, China.

**Professional experience:** 1995, he has been affiliated with Shanghai Maritime University and was a Visiting Scholar with RMIT University, Melbourne, VIC, Australia, from 2005 to 2006. From September 2005 to September 2006, he conducted postdoctoral research at the Royal Melbourne Institute of Technology for 6 months. In 2008, he was awarded the honorary title of Shanghai University Outstanding Young Teacher. In 2011, he was awarded an Honorary Fellowship from the Scientific Committee at the TransNav International Conference. In 2013, he participated in the "International Cooperation in Navigation Technology" project, which won the second prize in Shanghai Teaching Achievement. In 2014, he received funding from the Shanghai Talent Development Fund and won the Outstanding Paper Award of the China International Salvage Forum. In 2015, the journal paper of graduate students he guided won first prize from the China Navigation Science and Technology Journal for the period from 2012 to 2014 and won the Outstanding Paper Award of the 10th Academic Conference of the Salvage Professional Committee of the China Navigation Society. He has authored or coauthored numerous papers and authored the monograph “Model Course on Navigation in Polar Waters.” His research focuses on waterway traffic information engineering and ship traffic situation perception, leading projects, such as the “Research on Inversion Method of Inland River Ship Position Reference Information Based on Visual and AIS Data Fusion” and the “Key Technology Research and Demonstration of Intelligent Maritime Search and Rescue System.”,Dr. Hu is the Vice Chairman of the Rescue and Salvage Committee of the Chinese Society of Navigation, contributing to advancements in maritime safety and environmental protection.

**Key points of interest in research**: Computational Efficiency, Container Ship, Container Terminal, Correction Method, Correction Vector, Data Pre-processing, Departure Time, Depth wise Separable Convolution, Destination Port, Detection Performance, Different Sets Of Data, Dimensional Space, Direct Current, Environmental Awareness, Fuel Consumption, Future Reduction, Gaussian Process, Geographic Analysis, Influence Of Environmental Factors, Machine Learning, Machine Learning Techniques, Malacca Strait.