YINSONG WANG

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Department of Mechanical and Industrial Engineering, Northeastern University

EDUCATION

Northeastern University, United States

Jul 2021 - Present

Ph.D. in Industrial Engineering transferred from Texas A&M University

Department of Mechanical and Industrial Engineering

Advisor: Shahin Shahrampour

Texas A&M University, United States

Sep 2018 - Jun 2021

Ph.D. in Industrial and Systems Engineering

Department of Industrial and System Engineering

Advisor: Shahin Shahrampour

The Hong Kong Polytechnic University, Hong Kong

Aug 2017 - Jan 2019

M.S. in Manufacturing System Engineering and Management

Department of Industrial and Systems Engineering

Shandong University, China

Sep 2013 - Jun 2017

B.E. in Mechanical Engineering

Department of Mechanical Engineering.

RESEARCH INTEREST

Machine Learning, Meta Learning, Kernel Methods, Real-time Density Estimation, Distributed Learning

PUBLICATIONS

Journal Papers

• TAKDE: Temporal Adaptive Kernel Density Estimator for Real-Time Dynamic Density Estimation

Yinsong Wang, Yu Ding, Shahin Shahrampour

IEEE Transactions on Pattern Analysis and Machine Intelligence (IF: 24.31)

2023

- Learning from Non-IID Data in Hilbert Spaces: An Optimal Recovery Perspective
 Simon Foucart, Chunyang Liao, Shahin Shahrampour, **Yinsong Wang** (alphabetical order)
 Sampling Theory, Signal Processing, and Data Analysis

 2022
- ORCCA: Optimal Randomized Canonical Correlation Analysis

Yinsong Wang, Shahin Shahrampour

IEEE Transactions on Neural Networks and Learning Systems (IF: 14.26)

2021

• Classification of Officers Driving Situations Based on Eye-Tracking and Driver Performance Measures

Maryam Zahabi, Yinsong Wang, Shahin Shahrampour

IEEE Transactions on Human-Machine Systems (IF:4.142)

2021

Peer-Reviewed Conference Papers

• Estimating Traffic Density using Transformer Decoders

Yinsong Wang, Jing Zhang, Daniel Nikovski, Takaya Yamamoto

The 4th International Workshop on Statistical Methods and Artificial Intelligence (IWSMAI) 2023

Northeastern University • Student Travel Awards 2020 American Control Conference (ACC)	Jul 2020
 Student Travel Awards 2020 American Control Conference (ACC) Best Poster Awards 	Jul 2020 Nov 2019
Texas A&M University ISEN Department Poster Session	1000 2019
• Bronze Medal The 2nd Internet Plus Innovation and Entrepreneurship Competition	Sep~2016 of Shandong Province
• First Prize International Contest of innovation (iCAN), Shandong Division	Aug 2016
• Bronze Medal Shandong Haier College Students Entrepreneurship Competition	Jun 2016
• Golden Award College Student Entrepreneurship Competition of Shandong University	<i>Apr 2016</i>
• Second Prize The 1st Shandong "Fengqi Teahouse" Cup IT & Innovation Competit.	Nov 2015 ion
• Third Prize Shandong University Energy Conservation and Emission Reduction Co	$\begin{array}{c} Jun~2014\\ \\ \\ \end{array}$ ompetition
TEACHING EXPERIENCE	
Graduate Teaching Assistant at Texas A&M University Courses:	Sep 2018 - Jun 2021
• ISEN 613 (Graduate): Engineering Data Analysis	
• ISEN 625 (Graduate): Simulation Methods and Applications	
• ISEN 355 (Undergraduate): System Simulation	

Feb 2017 - Mar 2017

Assistant Engineer at Shandong Hein Saw Co., Ltd.

Assistant Engineer at Shandong Lingong Construction Machinery Co., Ltd.

Jul 2016 - Aug 2016

Management Intern at Kailuan (Group) Co., Ltd (Fortune 500)

Jul 2015 - Aug 2015

SERVICE

Reviewer

- IEEE American Control Conference (ACC)
- Learning for Dynamics and Control Conference (L4DC)
- Artificial Intelligence Review

MAIN CODING LANGUAGE

Python (PyTorch, TensorFlow, Jax), R, Matlab