Sen Wang, Ph.D.

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http://zephyr06.github.com/
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🞓 Google Scholar
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Education

2021 - 2025	Ph.D. Computer Engineering, Virginia Tech . Thesis title: Trilemma in Optimization for Time-critical Cyber-Physical Systems: Balancing Optimality, Generality, and Scalability.
2018 – 2020	M.Sc. Electrical and Computer Engineering, Georgia Institute of Technology . Thesis title: Robot calligraphy using pseudospectral optimal control in conjunction with a novel dynamic brush model.
2014 – 2018	B.E. Automation Engineering, Northeastern University . Thesis title: Research on Human Action Recognition Based on Three Dimensional Convolu- tional Neural Networks.

Employment

2025 – now	Software Engineer. Google LLC.	
2021 – 2024	Graduate Research/Teaching Assistant. Virginia Tech.	
2024 - 2024	Interim Engineering Intern. Qualcomm Technologies, Inc.	
2020 – 2020	Teaching Assistant. Georgia Institute of Technology.	
Awards		
2024	Pratt Fellowship Award, Virginia Tech.	
2020	Rest Entertainment and Amusement Paner Award Finalist	IFFF/RSI International

2020		Best Entertainment and Amusement Paper Award Finalist, IEEE/RSJ International
		Conference on Intelligent Robots and Systems (IROS)
2015 - 2018		Outstanding Student, Northeastern University
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- 2017 📕 Exemplary Student Leader, Northeastern University
- 2016 📕 Liu Dajie Fang Wenyu Scholarship, Northeastern University

Research Publications

Refereed Journal Publications

- X. Deng, A. H. Sifat, S. Huang, **Wang, Sen**, J.-b. Huang, C. Jung, R. Williams, and H. Zeng, "Partitioned scheduling with safety-performance trade-offs in stochastic conditional dag models," *Journal of Systems Architecture (JSA)*, vol. 153, p. 103 189, 2024, ISSN: 1383-7621.
- 2 Wang, Sen, D. Li (co-first author), S.-Y. Huang, X. Deng, A. H. Sifat, C. Jung, R. Williams, and H. Zeng, "Time-triggered scheduling for non-preemptive real-time dag tasks using 1-opt local search," *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems* (*TCAD*), 2024.
- A. H. Sifat, X. Deng, B. Bharmal, **Wang, Sen**, S. Huang, J. Huang, C. Jung, H. Zeng, and R. Williams, "A safety-performance metric enabling computational awareness in autonomous robots," *IEEE Robotics and Automation Letters* (*RA-L*), 2023.

Refereed Conferences Publications



Journal Reviewer

- ACM Transactions on Embedded Computing Systems (TECS)
- Journal of System Architecture (JSA)
- Internet of Things
- Journal of SuperComputing
- IEE Embedded Systems Letters
- Automation, Control and Intelligent Systems
- Robot Learning

Conference Reviewer

IEEE International Conference on Robotics and Automation (ICRA)

Technical Program Committee Member

Workshop on OPtimization for Embedded and ReAl-time systems (OPERA) co-located with the IEEE Real-Time Systems Symposium