

# Michael H. Shaham

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## EDUCATION

- Ph.D. Electrical Engineering, Northeastern University, 2019-2025  
M.S. Electrical Engineering, Northeastern University, 2019-2021  
B.S. Mechanical Engineering, University of Maryland, College Park, 2013-2017

## RESEARCH AREAS

Optimization, control, machine learning

## PUBLICATIONS

### Journal Articles

- 2024 **Shaham, M. H.**, T. Padir. “Learning a Stable, Safe, Distributed Feedback Controller for a Heterogeneous Platoon of Autonomous Vehicles.” *40th International Symposium of Robotics Research (ISRR)*.
- 2023 **Shaham, M. H.**, R. Ranjan, E. Kırdar, T. Padir. “Design and realization of a benchmarking testbed for evaluating autonomous platooning algorithms.” *18th International Symposium on Experimental Robotics (ISER)*. doi:10.1007/978-3-031-63596-0\_52
- 2022 Martinez-Lorenzo, J., J. Hudack, Y. Jing, **M. H. Shaham**, Z. Liang, A. Al Bashit, Y. Wu, W. Zhang, M. Skopin, J. Heredia-Juesas, Y. Ma, T. Sweeney, N. Ares, A. Fox. “Preliminary experimental results of multiple autonomous agents operating under constrained communications.” *Robotics*. doi:10.3390/robotics11050094
- 2017 Gardner, M. P. H., J. S. Conroy, **M. H. Shaham**, C. V. Styer, and G. Schoenbaum. “Lateral orbitofrontal inactivation dissociates devaluation-sensitive behavior and economic choice.” *Neuron*. doi:10.1016/j.neuron.2017.10.026

### Conference Proceedings

- 2024 **Shaham, M. H.**, T. Padir. “Distributed Model Predictive Control for Heterogeneous Platoons with Affine Spacing Policies and Arbitrary Communication Topologies.” *27th IEEE International Conference on Intelligent Transportation Systems (ITSC)*.
- 2022 Hanson, N., **M. H. Shaham**, D. Erdoğan, T. Padir. “VAST: Visual and spectral terrain classification in unstructured multi-class environments.” *IEEE International Conference on Intelligent Robots and Systems (IROS)*. doi:10.1109/IROS47612.2022.9982078
- 2022 **Shaham, M. H.**, M. Skopin, H. Hochshtein, K. Mabulu, L. Milburn, J. Tukupah, A. Tunik, J. Winn, M. Zolotas, D. Erdogmus, T. Padir. “Human-supervised automation test cell to accelerate personal protective equipment manufacturing during the COVID-19 pandemic.”

*IEEE International Symposium on Technologies for Homeland Security (HST).*  
doi:10.1109/HST56032.2022.10025429

## **MEMBERSHIPS**

IEEE Student Member

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