Hassaan Hashmi

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Education

Yale University — **New Haven, USA**
Ph.D. in Electrical Engineering — *Fall 2021 – Present*
Supervisor: Prof. Dionysios S. Kalogerias

KAIST — **Daejeon, ROK**
M.S. in Electrical Engineering — *Fall 2016 – Spring 2018*
Supervisor: Prof. Jong-Hwan Kim

NUST — **Islamabad, PK**
B.E. in Mechatronics Engineering — *Fall 2012 – Spring 2016*
President's Gold Medal (summa cum laude)

Publications

2021 (conf.): **H. Hashmi** and Dionysios S. Kalogerias, *"Model-Free Learning of Optimal Deterministic Resource Allocations in Wireless Systems via Action-Space Exploration"*, arXiv preprint arXiv:2108.10352, 2021.

2017 (jour.): T. Zafar, K. Kamal, Z. Sheikh, S. Mathavan, U. Ali, **H. Hashmi**, *"A neural network based approach for background noise reduction in airborne acoustic emission of a machining process"*, Journal of Mechanical Science and Technology, 2017, pp. 3171-3182.

2016 (conf.): M. Shaheer, **H. Hashmi**, S. Khan, M. Atif, Z. Shabbir, A. Ali, K. Kamal, T. Zafar, A. Awan, *"Control of a ball-bot using a PSO trained neural network"*, 2nd International Conference on Control, Automation and Robotics (ICCAR), Hong Kong, 2016, pp. 24-28.

Talks

"Reinforcement Learning: An Overview" | *recording* — 4 Jul 2020

Experience

Dept. of Electrical Engineering, Yale Univeristy — **New Haven, USA**
Graduate Research Assistant — *Sep 2021 – Present*

Dept. of Electrical and Computer Engineering, Michigan State Univeristy — **East Lansing, USA**
Graduate Research Assistant — *Jan 2021 – Aug 2021*

Intelligent Robotics Lab, National Center of AI — **Islamabad, PK**
Research Associate — *Jul 2019 – Dec 2020*

Selected Projects

Reinforcement Learning environment for a quadcopter | code

Dynamics Modeling of a ball-bot | report (chapter 4)

Planning based maze solving robot | video

Academic Honors and Awards

KAIST International Student Scholarship — *2016-2018*
NUST Merit based Scholarship — *2012-2016*
NUST Admission Award — *Aug 2012*