Charis Stamouli

University of Pennsylvania ⋄ stamouli@seas.upenn.edu ⋄ www.charis-stamouli.github.io

RESEARCH INTERESTS

Control Theory, Machine Learning

EDUCATION

University of Pennsylvania (UPenn) 09/2020–present
Ph.D. in Electrical and Systems Engineering

National Technical University of Athens (NTUA) 09/2014–11/2019
Diploma in Electrical and Computer Engineering (MEng, five-year degree)

- Thesis: Multi-agent Formation Control based on Distributed Estimation with Prescribed Performance
  Advisor: Kostas J. Kyriakopoulos
- GPA: 9.50/10, rank in top 3% of class

PROFESSIONAL EXPERIENCE

Teaching Assistant at UPenn
CIS520: Machine Learning 01/2022–04/2022
ESE500: Linear Systems Theory 08/2021–12/2021

- Designed homework and exam sets, held office hours, taught classes

Research Assistant at NTUA
Department of Mechanical Engineering, Control Systems Lab 11/2018–05/2020

- Conducted research in formation control of multi-agent systems based on distributed estimation

Robotics Intern at National Centre for Scientific Research "Demokritos"
Institute of Informatics and Telecommunications, Roboskel Lab 07/2018–08/2018

- Collected images of obstacles using a camera placed on a mobile robot
- Extended and implemented an algorithm for obstacle recognition during the autonomous motion of a vision-enabled mobile robot

Teaching Assistant at NTUA
Programming Techniques 02/2017–06/2017

- Assisted students in the lab sessions

PUBLICATIONS

Conference papers:

- **C. Stamouli**, E. Chatzipantazis, and G. J. Pappas, "Structural Risk Minimization for Learning Nonlinear Dynamics," IEEE American Control Conference (ACC), 2024. To appear.
- **C. Stamouli**, A. Tsiamis, M. Morari, and G. J. Pappas, "Adaptive Stochastic MPC under Unknown Noise Distribution," Conference on Learning for Dynamics and Control (L4DC), PMLR, pp. 596-607, 2022.
- **C. J. Stamouli**, C. P. Bechlioulis, and K. J. Kyriakopoulos, "Robust Dynamic Average Consensus with Prescribed Performance," 2019 IEEE 58th Conference on Decision and Control (CDC), pp. 5420-5425, 2019.

Journal papers:

- **C. J. Stamouli**, C. P. Bechlioulis, and K. J. Kyriakopoulos, "Robust Dynamic Average Consensus with Prescribed Transient and Steady State Performance," Automatica, vol. 144, 110503, 2022.
- **C. J. Stamouli**, C. P. Bechlioulis, and K. J. Kyriakopoulos, "Multi-Agent Formation Control Based on Distributed Estimation with Prescribed Performance," in IEEE Robotics and Automation Letters, vol. 5, no. 2, pp. 2929-2934, 2020. Presented at ICRA 2020.

Preprints:

- **C. Stamouli**, I. Ziemann, and G. J. Pappas, "Rate-Optimal Non-Asymptotics for the Quadratic Prediction Error Method," arXiv preprint arXiv:2404.07937, 2024.

HONORS AND AWARDS

Ganster Engineering Fellowship 2020
Department of Electrical and Systems Engineering, UPenn

The Dean's Fellowship 2020
Department of Electrical and Systems Engineering, UPenn

NTUA Thomaidion Award 2019
for the publication "Robust Dynamic Average Consensus with Prescribed Performance"

Eurobank EFG Award 2014
for ranking first in my high school on the Nationwide University Entrance Examination

SKILLS

Programming	Python, C/C++, MATLAB (proficient), Java, Prolog, ML (past experience)
Languages	English (fluent), Spanish (advanced), Greek (native)