Shahab Heshmati-alamdari

Assistant Professor (tenure track), Aalborg University

Date of birth: 24 May 1984, Nationality: Greek, Iranian

Website, Google Scholar, ORCID, Phone: 99403451, E-mail: shhe@es.aau.dk

Address: Fredrik Bajers Vej 7, C2-217, 9220 Aalborg, Denmark

Research interests:

constrained-based planning & control of autonomous robotic systems (mobile, underwater, and aerial), task planning and distributed control of multi-robot systems, interaction & cooperative manipulation control for floating-based manipulator systems, learning based control.

Education

PhD in Automatic Control and Robotics

9/2012 - defense date: 12/2018

National Technical University of Athens (NTUA)

Athens, Greece

- Dissertation Title: Cooperative and Interaction Control for Underwater Robotic Vehicles (PDF)
- PhD supervisor: Prof. Kostas J. Kyriakopoulos

MSc in Automatic Control Systems and Robotics

12/2009 - 3/2012

National Technical University of Athens (NTUA)

Athens, Greece

MEng in Mechanical Engineering

10/2003 - 12/2009

• National Technical University of Athens (NTUA)

Athens, Greece

Professional and Research Experience

Aalborg University, Department of Electronic Systems

Aalborg, Denmark

Assistant Professor (tenure track)

5/2021 - present

TUM Technical University of Munich, Chair of Information-oriented Control Munich, Germany
Postdoctoral Associate
6/2020 - 5/2021

- Research topic: Learning based control of autonomous robotic systems; Advisor: Prof. Sandra Hirche.

KTH Royal Institute of Technology, Department of Automatic Control

Stockholm, Sweden

 $Postdoctoral\ researcher$

1/2019 - 6/2020

- Research topic: Robust control under High-Level Specifications. Advisor: Prof. Dimos V. Dimarogonas

NTUA, Control Systems Lab

Athens, Greece

PhD researcher

6/2012 - 12/2018

Research topic: Robust cooperative control approaches for autonomous mobile manipulator systems.
 Advisor: Prof. Kostas J. Kyriakopoulos

Research Visits Abroad

Three months PhD research visiting

9/2016 - 12/2016

KTH Royal Institute of Technology

Stockholm, Sweden

Awards, Scholarships and Honors

KTH, Department of Automatic Control

Stockholm, Sweden

• Awarded a postdoctoral scholarship founded by Kunt & Alice Wallenberg foundation 8/2018 (KAW) among 120 candidates from all over the world.

ERCIM Alain Bensoussan Postdoctoral Fellowship

Trondheim, Norway

Awarded ERCIM Alain Bensoussan Postdoctoral Fellowship within 222 submissions

9/2018

Marie Sklodowska-Curie actions research fellowships

Athens, Greece

Marie Sklodowska-Curie research fellowship award for research career development.

2014-2017

Thomaidion Awards

Athens, Greece

Awards for scientific publications for five consecutive years

2014-2018

Undergraduate scholarship

Athens, Greece

Awarded undergraduate scholarship founded by ministry of foreign affairs of Greece

2003-2009

Publications

Peer reviewed scientific publications: 11 journals, 17 conferences, and 2 book chapters. H-index 12 (GS). i10-index 18 (GS). Total citations 502 (GS).

Supervision

- 5 Student semester projects, Aalborg University, Aalborg, Denmark 2021
- 1 Supervision of Bachelor thesis, TUM, Munich, Germany 2021
- 1 Co-supervision of Phd student, KTH, Stockholm, Sweden, 2019-2020
- 2 Master student theses, National Technical University of Athens, Greece, 2015-2017

Teaching

- Teaching lecture in 1 course, Topic: Robotics and control, Department of Electronic Systems, Aalborg University, Aalborg, Denmark, 09/2021-present.
- Teaching lecture in 2 courses at undergraduate level. Topic: Network systems and cooperative control, Chair of Information-oriented Control, Department of Electrical and Computer Engineering, Technical University of Munich, Munich, Germany, 2020-21.
- Teaching assistant in 4 courses for *four consecutive years*, undergraduate level. Topic: Robotics and control, NTUA, Department of Mechanical Engineering, Athens, Greece, 2014-2018.

Organizational Activities

Member of organization team of the 21th IFAC World Congress

The first completely virtual IFAC World Congress

Program organizer of NetCon workshop

Title: scientific seminar on decision and control

Organization of scientific presentations

Scientific seminars and talks

Munich, Germany
July,2021
Stockholm, Sweden
Jan,2021
Stockholm, Sweden
Jan,2021

Reviewing Activities

- Journal Reviewer: IEEE Transaction on Robotics, International Journal of Control, IET Control Theory & Applications, European Journal of Control, Artificial Intelligence Elsevier, IEEE Transaction on Control System Technology, IEEE Transactions on Automation Science and Engineering, IEEE Transactions on Cybernetics, Autonomous Robots.
- Conference Reviewer: IEEE Conference on Decision and Control (CDC), IEEE International Conference on Robotics and Automation (ICRA), IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), IFAC World Congress, IEEE Conference on Control Technology and Applications.

European Project Activities

- EU project R3COP: Robust & Safe Mobile Co-operative Autonomous Systems, funding agency: ARTEMIS Joint Technological Initiative. Role Researcher. 2010-2013 (participated from 2012).
- EU project THE: The Hand Embodied, Funding agency: FP7-ICT. Role: Researcher. 2010-2014.
- EU project PANDORA: Persistent Autonomy through learNing, aDaptation, Observation and ReplAnning, funding agency: FP7: Cognitive Systems and Robotics (STREP), Role: Researcher. 2012-2015.
- EU Marie Curie ROBOCADEMY: European Academy for Marine and Underwater Robotics, Funding agency: EU Marie Curie Program (7th Framework Programme). Role: Grant Holder & leader & Researcher. 2014-2017
- EU project CO4ROBOTS: Achieving Complex Collaborative Missions via Decentralized Control and Coordination of Interacting Robots, Funding agency: H2020-ICT-2016-1 EU project, Role: Researcher. 2017-2020.
- EU project SeaClear: SEarch, identificAtion and Collection of marine Litter with Autonomous Robots, Funded under H2020-EU.2.1.1, grant agreement No. 871295. Role: Researcher. 2020-2021
- Involvement in writing of i) 2 EU H2020, and ii) 2 Swedish proposals .