

## Asst. Prof. HALUK BAYRAM

### Personal Information

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### Education Information

Post Doctorate, University Of Minnesota, College Of Science & Engineering, Computer Science & Engineering, United States Of America 2014 - 2017

Post Doctorate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2014 - 2014

Doctorate, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, Turkey 2006 - 2013

Postgraduate, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Sistem Ve Kontrol Mühendisliği, Turkey 2003 - 2006

Undergraduate, Erciyes Üniversitesi, Faculty of Health Sciences , Kontrol Ve Bilgisayar Mühendisliği, Turkey 1997 - 2002

### Dissertations

Doctorate, Multirobot Communication and Task Coordination, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği, 2013

Postgraduate, Robot Parts' Rearrangement - Sensor Uncertainty Reduction Using Particle Filters, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Sistem Ve Kontrol Mühendisliği, 2006

### Research Areas

Information Systems, Communication and Control Engineering, Robotics and Mechatronics Systems, Field and Service Robots, Route and Motion Planning, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, İstanbul Medeniyet Üniversitesi, Faculty of Engineering and Natural Sciences , Elektrik-Elektronik Mühendisliği, 2018 - Continues

Medical Doctor, University Of Minnesota, College Of Science & Engineering, Computer Science & Engineering, 2014 - 2017

Research Assistant, Boğaziçi Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2007 - 2013

Research Assistant, Boğaziçi Üniversitesi, Fen Bilimleri Enstitüsü, Sistem Ve Kontrol Mühendisliği, 2005 - 2007

### Courses

Kontrol Lab., Undergraduate, 2018 - 2019

Robotiğe Giriş, Postgraduate, 2018 - 2019

Sayısal Sistem Tasarımı, Undergraduate, 2018 - 2019

Mantık Devreleri Tasarımı, Undergraduate, 2017 - 2018

Robotiğe Giriş, Postgraduate, 2017 - 2018

Otonom Robotlar, Postgraduate, 2018 - 2019  
Kontrol Sistemleri , Undergraduate, 2017 - 2018

## **Jury Memberships**

Post Graduate, Tez Savunma Jürisi, Boğaziçi Üniversitesi, Elektrik-Elektronik Mühendisliği, August, 2018

## **Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes**

- I. **Vision-based monitoring of orchards with UAVs**  
Stefas N., BAYRAM H., Isler V.  
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.163, 2019 (Journal Indexed in SCI)
- II. **Assistance networks for dynamic multirobot tasks**  
Bayram H., Bozma H. I.  
AUTONOMOUS ROBOTS, vol.40, no.4, pp.615-630, 2016 (Journal Indexed in SCI)
- III. **Coalition formation games for dynamic multirobot tasks**  
Bayram H., Bozma H. I.  
INTERNATIONAL JOURNAL OF ROBOTICS RESEARCH, vol.35, no.5, pp.514-527, 2016 (Journal Indexed in SCI)
- IV. **Decentralized network topologies in multirobot systems**  
Bayram H., Bozma H. I.  
ADVANCED ROBOTICS, vol.28, no.14, pp.967-982, 2014 (Journal Indexed in SCI)

## **Articles Published in Other Journals**

- I. **Gathering Bearing Data for Target Localization**  
Bayram H., HOOK J. V. , ISLER V.  
IEEE ROBOTICS AND AUTOMATION LETTERS, vol.1, no.1, pp.369-374, 2016 (Journal Indexed in ESCI)
- II. **Pairwise vs coalition game networks for multi-robot systems**  
Bayram H., Bozma H. I.  
IFAC Proceedings Volumes (IFAC-PapersOnline), vol.44, pp.13570-13575, 2011 (Refereed Journals of Other Institutions)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Aerial Radio-based Telemetry for Tracking Wildlife**  
BAYRAM H., STEFAS N., ISLER V.  
25th IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), Madrid, Spain, 1 - 05 October 2018, pp.4723-4728
- II. **Tracking Wildlife with Multiple UAVs: System Design, Safety and Field Experiments**  
BAYRAM H., STEFAS N., ENGİN K. S. , ISLER V.  
IEEE International Symposium on Multi-robot and Multi-agent Systems, Los Angeles, United States Of America, 04 December 2017, pp.1-7
- III. **Active localization of VHF collared animals with aerial robots**  
Bayram H., DODDAPANENI K., STEFAS N., ISLER V.  
2016 IEEE International Conference on Automation Science and Engineering, CASE 2016, Texas, United States Of America, 21 - 24 August 2016, pp.934-939
- IV. **Vision-Based UAV Navigation in Orchards**  
STEFAS N., Bayram H., Isler V.

5th IFAC Conference on Sensing, Control and Automation Technologies for Agriculture (AGRICONTROL), Washington, United States Of America, 14 - 17 August 2016, vol.49, pp.10-15

V. **Multirobot Communication Network Topology via Centralized Pairwise Games**

Bayram H., Bozma H. I.

IEEE International Conference on Robotics and Automation (ICRA), Karlsruhe, Germany, 6 - 10 May 2013, pp.2521-2526

VI. **Planar Multi-robot Realizations of Connectivity Graphs Using Genetic Algorithms**

Bayram H., Bozma H. I.

IEEE/RSJ International Conference on Intelligent Robots and Systems, Taipei, Taiwan, 18 - 22 October 2010

VII. **Multi-robot Navigation with Limited Communication - Deterministic vs Game-Theoretic Networks**

Bayram H., Bozma H. I.

IEEE/RSJ International Conference on Intelligent Robots and Systems, Taipei, Taiwan, 18 - 22 October 2010, pp.1825-1830

VIII. **Reactive rearrangement of parts under sensor inaccuracy: Particle filter approach**

Bayram H., Ertuzun A., Bozma H. I.

IEEE International Conference on Robotics and Automation (ICRA), Florida, United States Of America, 15 - 19 May 2006, pp.2029-2034

## Other Publications

I. **Robotic Surveying of Apple Orchards**

ROY P., STEFAS N., PENG C., BAYRAM H., TOKEKAR P., ISLER V.

Technical Report, pp.1-23, 2015

## Supported Projects

BAYRAM H., TUBITAK Project, Hava Robotları ile Yaban Hayatı Takibi, 2019 - Continues

BAYRAM H., STEFAS N., ISLER V., Project Supported by Higher Education Institutions, 1-5 Ekim 2018 Tarihleri Arasında İspanya-Madrid'de Yapılacak "IEEE-RSJ International Conference on Intelligent Robots and Systems"da Makale Sunumu İçin Katılım, 2018 - 2019

## Citations

Total Citations (WOS):38

h-index (WOS):4