

Asst. Prof. SAMET GÜLER

Personal Information

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Education Information

Doctorate, University of Waterloo, Engineering, Mechanical and Mechatronics Engineering , Canada 2012 - 2015

Research Areas

System Dynamics and Control, Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems

Academic Titles / Tasks

Assistant Professor, Abdullah Gul University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği, 2019 - Continues

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

- I. **Peer-to-Peer Relative Localization of Aerial Robots With Ultrawideband Sensors**
GÜLER S., Abdelkader M., Shamma J. S.
IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY, vol.29, no.5, pp.1981-1996, 2021 (Journal Indexed in SCI)
- II. **Distributed Formation Control of Drones With Onboard Perception**
Kabore K. M. , GÜLER S.
IEEE/ASME Transactions on Mechatronics, 2021 (Journal Indexed in SCI Expanded)
- III. **Perception, navigation, and manipulation in the team KAUST approach to the MBZIRC ground robotics challenge**
Guler S., Algarni M. A. , Shaqura M. Z. , Jaleel H., Mabrok M. A. , Jiang J., Lu Y., Shamma J. S.
JOURNAL OF FIELD ROBOTICS, vol.36, no.5, pp.973-1003, 2019 (Journal Indexed in SCI)
- IV. **Target capture and station keeping of fixed speed vehicles without self-location information**
Guler S., Fidan B.
EUROPEAN JOURNAL OF CONTROL, vol.43, pp.1-11, 2018 (Journal Indexed in SCI)
- V. **Adaptive Source Localization Based Station Keeping of Autonomous Vehicles**
Guler S., Fidan B., Dasgupta S., Anderson B. D. O. , Shames I.
IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol.62, no.7, pp.3122-3135, 2017 (Journal Indexed in SCI)
- VI. **Least-squares-based adaptive target localization by mobile distance measurement sensors**
Fidan B., Camlica A., Gueler S.
INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING, vol.29, no.2, pp.259-271, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Aerial Swarms: Recent Applications and Challenges

Abdelkader M., Güler S., Jaleel H., Shamma J. S.

Current Robotics Reports, vol.2, no.1, pp.309-320, 2021 (Refereed Journals of Other Institutions)

Books & Book Chapters

I. Deep Learning Based Formation Control of Drones

Kabore K. M., Güler S.

in: Deep Learning for Unmanned Systems, Anis Kouba, Ahmad Taha Azar, Editor, Springer Nature, Zürich, pp.383-413, 2021

II. Adaptive Swarm Coordination and Formation Control

Güler S., Fidan B.

in: Handbook of Research on Design, Control, and Modeling of Swarm Robotics, Ying Tan, Editor, IGI Global, Pennsylvania, pp.1-32, 2016

Refereed Congress / Symposium Publications in Proceedings

I. Peer-to-Peer Localization via On-board Sensing for Aerial Flocking

Rajab F. O., Güler S., Shamma J. S.

2020 17th International Conference on Ubiquitous Robots (UR), Kyoto, Japan, 22 - 26 June 2020, vol.1, no.1, pp.1-6

II. Infrastructure-free multi-robot localization with ultrawideband sensors

Güler S., Abdelkader M., Shamma J. S.

2019 American Control Conference, ACC 2019, Pennsylvania, United States Of America, 10 - 12 July 2019, vol.2019-July, pp.13-18

III. Real Time Onboard Ultrawideband Localization Scheme for an Autonomous Two-robot System

Güler S., Jiang J., Alghamdi A. A., Masoud R., Shamma J. S.

2018 IEEE Conference on Control Technology and Applications (CCTA), Kobenhavn, Denmark, 21 - 24 August 2018, vol.1, no.1, pp.1-6

IV. Cohesive motion control as a regulation problem

Güler S., Fidan B., Dasgupta S.

2016 24th Mediterranean Conference on Control and Automation (MED), Athens, Greece, 21 - 24 June 2016, vol.1, no.1, pp.1-6

V. Range Based Target Capture and Station Keeping of Nonholonomic Vehicles without GPS

Guler S., Fidan B.

European Control Conference (ECC), Linz, Austria, 15 - 17 July 2015, pp.2970-2975

VI. Indirect adaptive formation control with nonlinear dynamics and parametric uncertainty

Guler S., Koksall N., Fidan B., GAZI V.

2013 9th Asian Control Conference, ASCC 2013, İstanbul, Turkey, 23 - 26 June 2013

VII. Adaptive control of a three-agent surveillance swarm with constant speed constraint

Guler S., Koksall N., Fidan B.

2013 9th Asian Control Conference, ASCC 2013, İstanbul, Turkey, 23 - 26 June 2013

Supported Projects

Güler S., TUBITAK Project, Perception and decision mechanism designs for robot swarm realizations, 2019 - 2022

Patent

Shamma J. S. , Shaqura M. Z. , Güler S., Algarni M., Gripper mechanism and method, Patent, CHAPTER A Human Needs,
The Invention Registration Number: 10695915 , Initial Registration, 2020

Citations

Total Citations (WOS):39

h-index (WOS):3