

## Res. Asst. SERHAT KARAÇAM

### Personal Information

**Office Phone:** [+90 312 582 3345](tel:+903125823345)

**Email:** [serhatkaracam@gazi.edu.tr](mailto:serhatkaracam@gazi.edu.tr)

**Web:** <https://avesis.gazi.edu.tr/13187>

### International Researcher IDs

ScholarID: 8DD\$gDYAAAAJ

ORCID: 0000-0001-8425-7994

Publons / Web Of Science ResearcherID: AHA-9037-2022

ScopusID: 57904980400

Yoksis Researcher ID: 314821

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2022 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2019 - 2021

Undergraduate, Gazi University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2013 - 2018

### Dissertations

Postgraduate, Eş zamanlı konum belirleme ve haritalama probleminde iyileştirilmiş çözüm için GKF, AGKF ve FastSLAM uygulamaları, Gazi University, Fen Bilimleri Enstitüsü, 2021

### Research Areas

Electrical and Electronics Engineering, Electronic, Electronic Circuits, Optics and Photonics, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- An improved adaptive FastSLAM algorithm with time-varying noise estimator**  
Karaçam S., Navruz T. S.  
ASIAN JOURNAL OF CONTROL, vol.26, no.4, pp.2617-2627, 2023 (SCI-Expanded)

### Books & Book Chapters

- An Adaptive EKF Algorithm with Adaptation of Noise Statistic Based on MLE, EM and ICE**  
Karaçam S., Yalçın K., Navruz T. S.

in: Smart Applications with Advanced Machine Learning and Human-Centred Problem Design, Fatos Xhafa, Editor, Springer Nature, Zürich, pp.185-198, 2023

**II. Improved Performance of Adaptive UKF SLAM with Scaling Parameter**

Yalçın K., Karaçam S., Navruz T. S.

in: Smart Applications with Advanced Machine Learning and Human-Centred Problem Design , Fatos Xhafa, Editor, Springer Nature, Zürich, pp.175-183, 2023

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

**I. Effect of Resampling Methods to Performance of FastSLAM Under Different Noise Conditions**

Karaçam S., Navruz T. S.

IEEE Signal Processing and Communications Applications (SIU), Karabük, Turkey, 15 May - 18 September 2022, pp.1-4

**II. An Adaptive EKF Algorithm with Adaptation of Noise Statistic Based on MLE, EM and ICE**

Karaçam S., Yalçın K., Navruz T. S.

International Conference on Artificial Intelligence and Applied Mathematics in Engineering 2021, Antalya, Turkey, 1 - 04 October 2021, pp.45

**III. Improved Performance of Adaptive UKF SLAM with Scaling Parameter**

Yalçın K., Karaçam S., Navruz T. S.

3rd International Conference on Artificial Intelligence and Applied Mathematics in Engineering, Antalya, Turkey, 01 October 2021, pp.44

## **Metrics**

Publication: 6