

## Assoc. Prof. ŞÖLEN KUMBAY YILDIZ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-4042-2374

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### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Muhendisligi, Turkey 2006 - 2013

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Elektrik Ve Elektronik Muhendisligi, Turkey 2003 - 2006

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Elektrik Ve Elektronik Muhendisligi, Turkey 1999 - 2003

### Foreign Languages

English, C1 Advanced

German, C1 Advanced

### Research Areas

Electrical and Electronics Engineering, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2004 - Continues

### Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2017 - Continues

### Courses

DEVRE TEORİSİ 1, Undergraduate, 2017 - 2018, 2016 - 2017

DENETİM SİSTEMLERİ TASARIMI, Undergraduate, 2017 - 2018

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

- I. **Testing and comparison of different control methods on a gimbal system**  
Mandaci M., Yildiz S. K.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, no.1, pp.219-236, 2024  
(SCI-Expanded)
- II. **Silicon elastomer as flexible substrate: dielectric characterization and applications for wearable antenna**  
İFTİKHAR A., Naseer N., Yildiz S. K., GÖKCEN D., Fida A., Shafique M. F., SAKA TANATAR B.  
Flexible and Printed Electronics, vol.8, no.4, 2023 (SCI-Expanded)
- III. **Investigation of the planar midlatitude ionospheric trend under different levels of solar activity**  
KUMBAY YILDIZ Ş.  
Advances in Space Research, vol.71, no.5, pp.2252-2268, 2023 (SCI-Expanded)
- IV. **Fabrication and characterisation of highly stretchable elastomeric strain sensors for prosthetic hand applications**  
Yildiz S. K., MUTLU R., ALICI G.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.247, pp.514-521, 2016 (SCI-Expanded)
- V. **Relay sliding mode control based on the input-output model**  
KUMBAY YILDIZ Ş., DEMİRCİOĞLU H.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.4, pp.2609-2626, 2016  
(SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Characterization of Soft Robotic Antenna for Close-Proximity Distance Perception Yakın Mesafe Algisi için Yumuşak Robotik Duyarga Karakterizasyonu**  
Demir O., ÖZTÜRK E., Sayar E., UYANIK İ., Yildiz Ş. K.  
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023
- II. **A Biologically Inspired Soft Robotic Antenna for Insect-like Robots Böceğimsi Robotlar için Biyolojik Olarak Esinlenilmiş Yumuşak Robotik Duyarga**  
Kaymak O., Sen F., Yuksel F., UYANIK İ., Yildiz S. K.  
30th Signal Processing and Communications Applications Conference, SIU 2022, Safranbolu, Turkey, 15 - 18 May 2022
- III. **Detection of the Turkish Sign Language Alphabet with Strain Sensor Based Data Glove**  
Kaya F., Tuncer A. F., Yildiz S. K.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- IV. **TURKISH SIGN LANGUAGE ALPHABET TRANSLATOR**  
Yalcin M., Ilgaz S., Ozkul G., Yildiz S. K.  
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- V. **Relay Sliding Mode Control of Multiloop Systems Based on the Input-Output Model**  
Yildiz S. K., DEMİRCİOĞLU H.  
IEEE Conference on Control and Applications (CCA), Sydney, Australia, 21 - 23 September 2015, pp.834-839

## Supported Projects

GÖKCEN D., SAKA TANATAR B., BULU G., BAYSAL U., ÇADIRCI I., ALKAR A. Z., KUMBAY YILDIZ Ş., Project Supported by Higher Education Institutions, Elektrik ve Elektronik Mühendisliği Bölümü Laboratuvar Altyapısının Güçlendirilmesi, 2017 - 2021

KUMBAY YILDIZ Ş., Project Supported by Higher Education Institutions, Çokdöngülü sistemlerin giriş - çıkış yöntemine dayalı röle ile kayan kipli denetimi, 2015 - 2016

## **Metrics**

Publication: 10

Citation (WoS): 18

Citation (Scopus): 17

H-Index (WoS): 1

H-Index (Scopus): 2

## **Non Academic Experience**

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