

## Asst. Prof. SEZGİN SEÇİL

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AGF-6619-2022

ScopusID: 57151458800

Yoksis Researcher ID: 51212

### Education Information

Doctorate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, Turkey 2015 - 2022

Postgraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2012 - 2015

Undergraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2007 - 2012

### Dissertations

Doctorate, Emniyetli insan-robot etkileşimi için çarpışmasız yol planlama yöntemi geliştirilmesi, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2021

Postgraduate, Endüstriyel robot kolları için kolay programlama yöntemi geliştirme, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Elektrik-Elektronik Mühendisliği Bölümü, 2015

### Research Areas

Electrical and Electronics Engineering

### Academic Titles / Tasks

Research Assistant PhD, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2022 - Continues

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2012 - 2022

### Courses

#### Undergraduate

ELECTRICAL ENGINEERING DESIGN, Undergraduate, 2023 - 2024, 2022 - 2023

ELECTRICAL ENGINEERING DESIGN, Undergraduate, 2023 - 2024, 2022 - 2023  
COMPUTER PROGRAMMING, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
FUNDAMENTALS OF OCCUPATIONAL HEALTH AND SAFETY, Undergraduate, 2022 - 2023  
OCCUPATIONAL HEALTH&SAFETY IN ELECTRICAL ENGING., Undergraduate, 2023 - 2024, 2022 - 2023  
INTRODUCTION TO PROGRAMMING, Undergraduate, 2023 - 2024, 2022 - 2023  
FUNDAMENTALS OF OCCUPATIONAL HEALTH AND SAFETY, Undergraduate, 2022 - 2023  
OCCUPATIONAL HEALTH&SAFETY IN ELECTRICAL ENGING., Undergraduate, 2023 - 2024, 2022 - 2023

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

- I. **A collision-free path planning method for industrial robot manipulators considering safe human-robot interaction**  
SEÇİL S., ÖZKAN M.  
Intelligent Service Robotics, vol.16, no.3, pp.323-359, 2023 (SCI-Expanded)
- II. **Surface profile-guided scan method for autonomous 3D reconstruction of unknown objects using an industrial robot**  
Özkan M., Seçil S., Turgut K., Dutağacı H., Uyanik C., Parlaktuna O.  
Visual Computer, vol.38, no.11, pp.3953-3977, 2022 (SCI-Expanded)
- III. **Minimum distance calculation using skeletal tracking for safe human-robot interaction**  
SEÇİL S., ÖZKAN M.  
Robotics and Computer-Integrated Manufacturing, vol.73, 2022 (SCI-Expanded)

## Papers Published in Refereed Scientific Meetings

- I. **SPGS: A new method for autonomous 3D reconstruction of unknown objects by an industrial robot**  
UYANIK C., SEÇİL S., ÖZKAN M., DUTAĞACI H., TURGUT K., PARLAKTUNA O.  
19th Annual Conference on Towards Autonomous Robotic Systems, TAROS 2018, Bristol, England, 25 - 27 July 2018, vol.10965 LNAI, pp.15-27
- II. **A Robotic System for Autonomous 3-D Surface Reconstruction of Objects**  
SEÇİL S., TURGUT K., Soyleyici C., ÖZKAN M., PARLAKTUNA O., DUTAĞACI H., Parlaktuna M.  
3rd IEEE International Conference on Control, Automation and Robotics (ICCAR), Nagoya, Japan, 22 - 24 April 2017, pp.188-191
- III. **A Method for Determining Local Coordinate Frames Attached to Objects by a Laser Profile Sensor in Industrial Robot Workspaces**  
TURGUT K., DUTAĞACI H., Soyleyici C., SEÇİL S., ÖZKAN M., PARLAKTUNA O., Parlaktuna M.  
17th IEEE International Conference on Autonomous Robot Systems and Competitions (ICARSC), Coimbra, Portugal, 26 - 28 April 2017, pp.260-265
- IV. **Endüstriyel Robot Programlamada Yeni Bir Yöntem**  
SEÇİL S., PARLAKTUNA O., TURGUT K., ÖZKAN M.  
TÜRKİYE ROBOTBİLİM KONFERANSI (ToRK 2016), İstanbul, Turkey, 2 - 03 November 2016
- V. **Design of an Application Programming Interface (API) for Commercial Industrial Robots**  
SEÇİL S., Soyleyici C., ÖZKAN M., PARLAKTUNA O., DUTAĞACI H., TURGUT K., Parlaktuna M.  
14th IEEE International Conference on Industrial Informatics (INDIN), Poitiers, France, 19 - 21 July 2016, pp.225-230
- VI. **Simple Programming Scheme for Industrial Robot Manipulators A Case Study For Feasibility Proof**  
SEÇİL S., TURGUT K., PARLAKTUNA O., ÖZKAN M.  
International Symposium on Innovations in Intelligent SysTems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.27-33
- VII. **Lazer Profil Algılayıcı ve Endüstriyel Robot Kullanımı ile 3 B Görselleştirme Sistemi**

SEÇİL S., TURGUT K., ÖZKAN M., PARLAKTUNA O.

Türkiye Otonom Robotlar Konferansı (TORK 2014), Ankara, Turkey, 6 - 07 November 2014

VIII. **3-D Visualization System for Geometric Parts Using a Laser Profile Sensor and an Industrial Robot**

SEÇİL S., TURGUT K., PARLAKTUNA O., ÖZKAN M.

IEEE International Symposium on Robotics and Manufacturing Automation (IEEE-ROMA), Kuala-Lumpur, Malaysia, 15 - 16 December 2014, pp.160-165

## Supported Projects

Özkan M., Kaleci B., Elibol Seçil G., Seçil S., Yazıcı A., TUBITAK Project, Çok Parçalı Yapıların Kalite Denetimine Yönelik Otonom Robotik Denetleme Yöntemi Geliştirilmesi, 2022 - 2025

DUTAĞACI H., ÖZKAN M., TUBITAK Project, Endüstriyel Robot Kolu kullanımı ile Cisimlerin 3-B Otonom Modellenmesi, 2015 - 2017

Seçil S., Özkan M., Project Supported by Higher Education Institutions, ENDÜSTRİYEL ROBOT KOLLARI İÇİN OTOMATİK PROGRAMLAMA UYGULAMASI, 2015 - 2016

Seçil S., Özkan M., Project Supported by Higher Education Institutions, ENDÜSTRİYEL ROBOT KOLLARI İÇİN OTOMATİK PROGRAMLAMA YÖNTEMİ GELİŞTİRME, 2013 - 2016

## Peer Reviews in Scientific Publications

INTELLIGENT SERVICE ROBOTICS, Journal Indexed in SCI-E, January 2024

International Journal of Intelligent Robotics and Applications, Journal Indexed in ESCI, December 2023

## Metrics

Publication: 14

Citation (WoS): 40

Citation (Scopus): 64

H-Index (WoS): 3

H-Index (Scopus): 4