

Prof. OSMAN PARLAKTUNA

Personal Information

Email: oparlak@ogu.edu.tr

Web: <https://avesis.ogu.edu.tr/oparlak>

International Researcher IDs

ScholarID: VpxK5TkAAAAJ

ORCID: 0000-0003-2741-6455

Yoksis Researcher ID: 13138

Education Information

Doctorate, Vanderbilt University, Kontrol Ve Kumanda Sistemleri, United States Of America 1984 - 1990

Postgraduate, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1981 - 1984

Undergraduate, Middle East Technical University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 1976 - 1981

Foreign Languages

English, C1 Advanced

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, ELEKTRİK-ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ, 2012 - Continues

Academic and Administrative Experience

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, 2013 - 2016

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, 2012 - 2015

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1995

Published journal articles indexed by SCI, SSCI, and AHCI

1. Surface profile-guided scan method for autonomous 3D reconstruction of unknown objects using an industrial robot

Özkan M., Seçil S., Turgut K., Dutağacı H., Uyanık C., Parlaktuna O.

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- II. **Robust position/force control of nonholonomic mobile manipulator for constrained motion on surface in task space**
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- III. **Semantic classification of mobile robot locations through 2D laser scans**
Kaleci B., Senler C. M., Dutağacı H., Parlaktuna O.
INTELLIGENT SERVICE ROBOTICS, vol.13, pp.63-85, 2020 (SCI-Expanded)
- IV. **Editorial for TOK 2016 special section**
PARLAKTUNA O.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.40, no.8, pp.2439, 2018 (SCI-Expanded)
- V. **A Dynamic Path Planning Approach for Multirobot Sensor-Based Coverage Considering Energy Constraints**
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- VI. **Performance analysis of bid calculation methods in multirobot market-based task allocation**
KALECİ B., PARLAKTUNA O.
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- VII. **A pattern-based genetic algorithm for multi-robot coverage path planning minimizing completion time**
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JOURNAL OF INTELLIGENT MANUFACTURING, vol.23, no.4, pp.1035-1045, 2012 (SCI-Expanded)
- VIII. **MARKET-BASED MULTI-ROBOT TASK ALLOCATION USING ENERGY-BASED BID CALCULATIONS**
KALECİ B., PARLAKTUNA O.
INTERNATIONAL JOURNAL OF ROBOTICS & AUTOMATION, vol.27, no.4, pp.396-410, 2012 (SCI-Expanded)
- IX. **Energy constrained multi-robot sensor-based coverage path planning using capacitated arc routing approach**
SİPAHİOĞLU A., Kirlik G., PARLAKTUNA O., YAZICI A.
ROBOTICS AND AUTONOMOUS SYSTEMS, vol.58, no.5, pp.529-538, 2010 (SCI-Expanded)
- X. **A Multi-Robot Control Architecture for Fault-Tolerant Sensor-Based Coverage**
ÖZKAN M., Kirlik G., PARLAKTUNA O., Yufka A., YAZICI A.
INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS, vol.7, no.1, pp.67-74, 2010 (SCI-Expanded)
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- XII. **Heuristic-Based Dynamic Route Planning Method for a Homogeneous Multi-robot Team**
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- XIV. **A VRP-based route planning for a mobile robot group**
PARLAKTUNA O., SİPAHİOĞLU A., YAZICI A.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.15, no.2, pp.187-197, 2007 (SCI-Expanded)
- XV. **Priority-constrained task sequencing for heterogeneous mobile robots**
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ADVANCES IN APPLIED ARTIFICIAL INTELLIGENCE, PROCEEDINGS, vol.4031, pp.393-399, 2006 (SCI-Expanded)
- XVI. **Adaptive control of free-floating space manipulators using dynamically equivalent manipulator**

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XVII. Adaptive control of free-floating space robots in Cartesian coordinates

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XVIII. FINE ATTITUDE-CONTROL OF SPACE-VEHICLES USING SPACE MANIPULATORS

PARLAKTUNA O., COOK G., STRAUSS A., FERNANDEZ K.

INTERNATIONAL JOURNAL OF ROBOTICS & AUTOMATION, vol.9, no.1, pp.29-35, 1994 (SCI-Expanded)

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- I. **Position control of input-delayed mobile manipulator**
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- II. **ESKİŞEHİR OSMANGAZİ ÜNİVERSİTESİ ELEKTRİK ELEKTRONİK MÜHENDİSLİĞİ BÖLÜMÜ**
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Eskişehir Osmangazi Üniversitesi mühendislik ve mimarlık fakültesi dergisi (online), vol.31, no.4, pp.1077-1086, 2023 (Peer-Reviewed Journal)
- III. **TWO DOF ROBOT CONTROL WITH FUZZY BASED NEURAL NETWORKS**
ortatepe z., PARLAKTUNA O.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi :A-Uygulamalı Bilimler ve Mühendislik, vol.18, no.4, pp.819-830, 2017 (Peer-Reviewed Journal)
- IV. **Task Allocation in Market Based Applications by The Nearest Neighbor Heuristic**
GÜREL U., PARLAKTUNA O., ADAR N., CANBEK S.
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY–A Applied Sciences and Engineering, vol.14, no.2, pp.173-182, 2013 (Peer-Reviewed Journal)
- V. **Mobile Robot Localization via Outlier Rejection in Sonar Range Sensor Data**
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ISTANBUL UNIVERSITY-JOURNAL OF ELECTRICAL AND ELECTRONICS ENGINEERING, vol.12, no.1, pp.1457-1464, 2012 (ESCI)
- VI. **Gezgin Robotlarda Ultrasonik Mesafe Algılayıcılarla Robot Davranışlarının Kontrolü ve Çevre Haritalama**
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Eskişehir Osmangazi University Journal of Engineering and Architecture, vol.2, no.5, pp.83-106, 2007 (Peer-Reviewed Journal)
- VII. **Device Server for a Miniature Mobile Robot**
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Books

- I. **Sistem gereksinimlerinin belirlenmesi**
PARLAKTUNA O.
in: Sistem Analizi ve Tasarımı, Hasan Durucasu, Şenay Lezki, Editor, Anadolu Üniversitesi, Eskişehir, pp.66-84, 2016
- II. **Sistem Analizi ve Tasarımına Giriş**
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in: Sistem Analizi ve Tasarımı, Hasan Durucasu, Şenay Lzeki, Editor, Anadolu Üniversitesi, Eskişehir, pp.2-22, 2016
- III. **Pattern-Based Genetic Algorithm Approach to Coverage Path Planning for Mobile Robots**

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in: Computational Science – ICCS 2009, Allen, G., Nabrzyski, J., Seidel, E., van Albada, G.D., Dongarra, J., Sloot, P.M.A. ,
Editor, SPRINGER, pp.33-42, 2009

Papers Published in Refereed Scientific Meetings

- I. **Kısıtlı Mobil Manipülâtörün Modele Dayalı Pozisyon-Kuvvet Denetimi**
ELİBOL SEÇİL G., PARLAKTUNA O.
21. Otomatik Kontrol Ulusal Toplantısı - TOK 2019, Turkey, 11 - 14 September 2019
- II. **A Comparative Study for Topological Map Construction Methods from Metric Map**
KALECİ B., PARLAKTUNA O., GÜREL U.
26th IEEE Signal Processing and Communications Applications Conference (SIU), İzmir, Turkey, 2 - 05 May 2018
- III. **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
- IV. **A Method for Determining Local Coordinate Frames Attached to Objects by a Laser Profile Sensor in Industrial Robot Workspaces**
TURGUT K., DUTAĞACI H., Söyleyici C., SEÇİL S., ÖZKAN M., PARLAKTUNA O., PARLAKTUNA M.
2017 IEEE International Conference on Autonomous Robot Systems and Competitions, Coimbra, Portugal, 26 April - 28 December 2017, pp.260-265
- V. **A Robotic System for Autonomous 3-D Surface Reconstruction of Objects. Design and Implementation**
SEÇİL S., TURGUT K., Söyleyici C., ÖZKAN M., PARLAKTUNA O., DUTAĞACI H., PARLAKTUNA M.
2017 The 3rd International Conference on Control and Automation and Robotics (ICCAR 2017), Nagoya, Japan, 22 - 24 April 2017, pp.188-191
- VI. **A Method for Determining Local Coordinate Frames Attached to Objects by a Laser Profile Sensor in Industrial Robot Workspaces**
TURGUT K., DUTAĞACI H., Söyleyici 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
- VII. **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
- VIII. **Design of an Application Programming Interface (API) for Commercial Industrial Robots**
SEÇİL S., Söyleyici 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
- IX. **Spektral Kümeleme Yöntemi ile Metrik Haritadan Topolojik Harita Oluşturma**
KALECİ B., Şenler Ç. M., PARLAKTUNA O., GÜREL U.
2. Türkiye Robotbilim Konferansı (ToRK), Turkey, 26 - 27 October 2015
- X. **Bina İçi Ortamlarda Lazer Mesafe Verisi Kullanarak KuralTabanlı Kapı Bulma**
KALECİ B., Şenler Ç. M., DUTAĞACI H., PARLAKTUNA O.
2. Türkiye Robotbilim Konferansı (ToRK), Turkey, 26 - 27 October 2015
- XI. **Sıcaklık Kontrol Sistemi için Deneysel Platform Tasarımı**
UYANIK C., ÖZKAN M., PARLAKTUNA O.
Otomatik Kontrol Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015, pp.827-832
- XII. **Simple Programming Scheme for Industrial Robot Manipulators**
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2015 International Symposium on Innovations in Intelligent Systems and Applications, Madrid, Spain, 2 - 04

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- XIII. **Design of an Experimental Platform for Process Control Systems**
Uyantki C., ÖZKAN M., PARLAKTUNA O.
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- XIV. **Constructing Topological Map from Metric Map Using Spectral Clustering**
KALECİ B., Senler C. M., PARLAKTUNA O., GÜREL U.
27th IEEE International Conference on Tools with Artificial Intelligence (ICTAI), Vietri sul Mare, Italy, 9 - 11 November 2015, pp.139-145
- XV. **People Counting System by Using Kinect Sensor**
Coskun A., Kara A., Parlaktuna M., ÖZKAN M., PARLAKTUNA O.
International Symposium on Innovations in Intelligent SysTems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.149-155
- XVI. **Rule-Based Door Detection Using Laser Range Data in Indoor Environments**
KALECİ B., Senler C. M., DUTAĞACI H., PARLAKTUNA O.
27th IEEE International Conference on Tools with Artificial Intelligence (ICTAI), Vietri sul Mare, Italy, 9 - 11 November 2015, pp.510-517
- XVII. **A Probabilistic Approach for Semantic Classification Using Laser Range Data in Indoor Environments**
Kaleci B., Senler C. M., Dutağacı H., Parlaktuna O.
International Conference on Advanced Robotics (ICAR), İstanbul, Turkey, 27 - 31 July 2015, pp.375-381
- XVIII. **Lazer Profil Algılayıcı ve Endüstriyel Robot Kullanımı ile 3 B Görşelleştirme Sistemi**
SEÇİL S., TURGUT K., ÖZKAN M., PARLAKTUNA O.
Türkiye Otonom Robotlar Konferansı (TORK 2014), Ankara, Turkey, 6 - 07 November 2014
- XIX. **Strategy planned Q-learning approach for multi-robot rask allocation**
kayır h. h. e., PARLAKTUNA O.
11th International Conference on Informatics in Control and Robotics (ICINCO), 1 - 03 September 2014, pp.410-416
- XX. **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
- XXI. **Priority-Based Task Allocation in Auction-Based Applications**
GÜREL U., ADAR N., PARLAKTUNA O.
IEEE International Symposium on INnovations in Intelligent SysTems and Applications (INISTA), Bulgaria, 19 - 21 June 2013
- XXII. **Mobile robot localization via outlier rejection in sonar range sensor data**
Yılmaz S., Ezercan Kayır H. H., Kaleci B., Parlaktuna O.
2011 7th International Conference on Electrical and Electronics Engineering (ELECO), Bursa, Turkey, 1 - 04 December 2011, vol.2, pp.434-438
- XXIII. **Atama Problemini Kullanan Market Tabanlı Görev Paylaşırma Algoritması**
KALECİ B., KİRLİK G., PARLAKTUNA O., ÖZKAN M.
Ulusal Otomatik KontrolToplantısı (TOK 2010), Kocaeli, Turkey, 21 - 23 September 2010, pp.380-385
- XXIV. **Çoklu Gezin Robotlarla Formasyon Tabanlı Nesne Taşıma**
YUFKA A., ÖZKAN M., PARLAKTUNA O.
Ulusal Otomatik KontrolToplantısı (TOK 2010), Kocaeli, Turkey, 21 - 23 September 2010, pp.520-525
- XXV. **Parçacık Süzgeci Tabanlı Konumlandırma Yöntemi için Yeni Bir Algılayıcı Modeli**
YILMAZ S., EZERCAN KAYIR H. H., KALECİ B., PARLAKTUNA O.
Otomatik Kontrol Türk Milli Komitesi – Otomatik Kontrol Ulusal Toplantısı, Gebze-Kocaeli, Turkey, 21 - 23 September 2010, pp.298-303
- XXVI. **Market Based Task Allocation Method Using Exploratory Learning for Heterogeneous Multi Robot Team**

KALECİ B., PARLAKTUNA O., ÖZKAN M.

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- XXVII. **Repealing Range Sensor Model Approach for Particle Filter Based Mobile Robot Localization Using Sonar Data**
YILMAZ S., EZERCAN KAYIR H. H., KALECİ B., PARLAKTUNA O.
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- XXVIII. **Single molecule manipulation by using optical tweezers**
SAYIN E., KILIÇ G., BÜTÜN V., EROL K., PARLAKTUNA O., EROĞLU S.
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- XXIX. **An Application on Line and Corner Detection Method by Using Laser Beams**
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- XXX. **A New Task Reintroduction Approach for Market Based Task Allocation**
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- XXXI. **A New Task Reintroduction Approach for Market-Based Task Allocation Method**
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- XXXIV. **Formation-Based Cooperative Transportation by a Group of Non-holonomic Mobile Robots**
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- XXXVI. **A New Approach to Improve the Success Ratio and Localization Duration of a Particle Filter Based Localization for Mobile Robots**
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- XXXVII. **Gezgin Robotlarda Parçacık Süzgeci Tabanlı Konumlandırma ve Seyrüsefer Yöntemi**
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- XXXIX. **Performance Comparison of the Bug s Algorithms for Mobile Robots**
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- XL. Agent Based route planning for a mobile robot**
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- XLII. Pattern-Based Genetic Algorithm Approach to Coverage Path Planning for Mobile Robots**
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- XLIII. A genetic algorithm for task completion time minimization for multi-robot sensor-based coverage**
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- XLVI. Hierarchical Oriented Genetic Algorithms for Coverage Path Planning of Multi-robot Teams with Load Balancing**
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- XLVII. Gezgin Robotlar için Çok Kameralı Konumlandırma Sistemi**
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- XLVIII. Erkin Tabanlı Gezgin Robot Kontrol Mimarisinin Ortam Kapsanması Probleminde Kullanımı**
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- XLIX. Gezgin Robotlar için Görüntü Tabanlı Konumlandırma Sistemi**
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- L. A Genetic Algorithm with Orientation Compasses for Single or Multi Robot Coverage Path Planning**
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- LI. A Sensor Based Coverage Approach in Dynamic Environment**
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- LII. An agent based framework for a multi robot project scheduling**
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- LIII. Tepe Kamera ile İç Ortamda Gezgin Robotların Konumlandırılması**
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- LIV. **Robot Navigasyonunda Potansiyel Alan Metodlarının Karşılaştırılması ve İç Ortamlarda Uygulanması**
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- LV. **Priority Constrained Task Sequencing for Heterogeneous Mobile Robots**
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- LVI. **Resource leveling approach for multi robot task scheduling**
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5th International Symposium on Intelligent Manufacturing Systems, Sakarya, Turkey, 29 - 31 May 2006, vol.1, pp.1191-1201
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