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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, Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik Elektronik Mühendisliği Bölümü, 2012 - Continues

Academic and Administrative Experience

Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, 2013 - 2016

Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, 2012 - 2015

Eskişehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 1993 - 1995

Published journal articles indexed by SCI, SSCI, and AHCI

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

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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**
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- 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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- VII. **A pattern-based genetic algorithm for multi-robot coverage path planning minimizing completion time**
KAPANOĞLU M., Alikalfa M., ÖZKAN M., YAZICI A., PARLAKTUNA O.
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- 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)
- XI. **Project-oriented task scheduling for mobile robot team**
HASGÜL S., SARIÇİÇEK İ., ÖZKAN M., PARLAKTUNA O.
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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**
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- 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 model**

- Parlaktuna O., Ozkan M.
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- XVII. **Adaptive control of free-floating space robots in Cartesian coordinates**
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ADVANCED ROBOTICS, vol.18, no.9, pp.943-959, 2004 (SCI-Expanded)
- XVIII. **FINE ATTITUDE-CONTROL OF SPACE-VEHICLES USING SPACE MANIPULATORS**
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INTERNATIONAL JOURNAL OF ROBOTICS & AUTOMATION, vol.9, no.1, pp.29-35, 1994 (SCI-Expanded)

Articles Published in Other Journals

- I. **TWO DOF ROBOT CONTROL WITH FUZZY BASED NEURAL NETWORKS**
ortatepe z., PARLAKTUNA O.
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- II. **Task Allocation in Market Based Applications by The Nearest Neighbor Heuristic**
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ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY-A Applied Sciences and Engineering, vol.14, no.2, pp.173-182, 2013 (Peer-Reviewed Journal)
- III. **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)
- IV. **Gezgin Robotlarda Ultrasonik Mesafe Algılayıcılarla Robot Davranışlarının Kontrolü ve Çevre Haritalama**
PARLAKTUNA O., Eroğlu E.
Eskişehir Osmangazi University Journal of Engineering and Architecture, vol.2, no.5, pp.83-106, 2007 (Peer-Reviewed Journal)
- V. **Device Server for a Miniature Mobile Robot**
ÖZKAN M., PARLAKTUNA O.
International Journal Of Advanced Robotic Systems, vol.3, no.3, pp.133-138, 2006 (Scopus)

Books & Book Chapters

- 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**
KAPANOĞLU M., ÖZKAN M., YAZICI A., PARLAKTUNA O.
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

Refereed Congress / Symposium Publications in Proceedings

- I. **Kısıtlı Mobil Manipülatörün Modele Dayalı Pozisyon-Kuvvet Denetimi**

ELİBOL SEÇİL G., PARLAKTUNA O.

21. Otomatik Kontrol Ulusal Toplantısı - TOK 2019, Turkey, 11 - 14 September 2019

- II. **SPGS: A new method for autonomous 3D reconstruction of unknown objects by an industrial robot**
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- III. **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
- 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.
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- 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.
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- 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 September 2015, pp.27-33
- XIII. **People Counting System by Using Kinect Sensor**
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International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2015), Madrid, Spain, 2 - 04 September 2015, pp.149-155
- XIV. **Design of an Experimental Platform for Process Control Systems**
Uyanki C., ÖZKAN M., PARLAKTUNA O.
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2015, pp.812-816

- XV. **Rule-Based Door Detection Using Laser Range Data in Indoor Environments**
KALECİ B., Senler C. M., DUTAĞACI H., PARLAKTUNA O.
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- XVI. **Constructing Topological Map from Metric Map Using Spectral Clustering**
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- XVII. **A Probabilistic Approach for Semantic Classification Using Laser Range Data in Indoor Environments**
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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 task 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.
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- XXIV. **Çoklu Gezin Robotlarla Formasyon Tabanlı Nesne Taşıma**
YUFKA A., ÖZKAN M., PARLAKTUNA O.
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- 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.
International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2010), Kayseri, Turkey, 21 - 24 June 2010, pp.481-485
- 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. **A New Task Reintroduction Approach for Market-Based Task Allocation Method**
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- XXX. **An Application on Line and Corner Detection Method by Using Laser Beams**
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- XXXIII. **Market-Based Task Allocation by using Assignment Problem**
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- XXXIV. **A New Sensor Model for Particle-Filter Based Localization in the Partially Unknown Environments**
YILMAZ S., Kayir H. E., KALECİ B., PARLAKTUNA O.
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- XXXV. **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**
YILMAZ S., EZERCAN KAYIR H. H., KALECİ B., PARLAKTUNA O.
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Elektrik, Elektronik, Bilgisayar, Biyomedikal Mühendisliği 13. Ulusal Kongresi, Ankara, Turkey, 23 - 26 December 2009, pp.145-150
- 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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- XLI. **Performance comparison of bug algorithms for mobile robots**
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- XLII. **A Dynamic Path Planning Approach for Multi-Robot Sensor-Based Coverage Considering Energy Constraints**

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- XLIII. **A genetic algorithm for task completion time minimization for multi-robot sensor-based coverage**

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- XLIV. **Hierarchical Oriented Genetic Algorithms for Coverage Path Planning of Multi-robot Teams with Load Balancing**

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- XLV. **Multi-robot sensor-based coverage path planning using capacitated arc routing approach**

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- XLVI. **Pattern-Based Genetic Algorithm Approach to Coverage Path Planning for Mobile Robots**

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- XLVII. **Gezgin Robotlar için Çok Kameralı Konumlandırma Sistemi**

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- XLVIII. **Gezgin Robotlar için Görüntü Tabanlı Konumlandırma Sistemi**

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- XLIX. **Erkin Tabanlı Gezgin Robot Kontrol Mimarisinin Ortam Kapsanması Probleminde Kullanımı**

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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**

ÇİNAR E., PARLAKTUNA O., YAZICI A.

12. Elektrik Elektronik Bilgisayar Biyomedikal Mühendisliği Ulusal Kongresi, Eskişehir, Turkey, 1 - 03 August 2007

- LV. **Priority Constrained Task Sequencing for Heterogeneous Mobile Robots**

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- LIX. **Bulanık Mantık Yöntemiyle Gezgin Robot Navigasyonu**
PARLAKTUNA O., BAKLA B., ÖZKAN M., YAZICI A.
IEEE 13. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Kayseri, Turkey, 16 - 18 May 2005
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Citation (WoS): 406

Citation (Scopus): 608

H-Index (WoS): 10

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