

AHMET BUĞRA KOKU

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International Researcher IDs

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Publons / Web Of Science ResearcherID: B-1050-2016

ScopusID: 6602650471

Yoksis Researcher ID: 164170



Learning Knowledge

Doctorate 1997 - 2003	Vanderbilt University, Elektrik Elektronik Müh. Böl., United States Of America
Postgraduate 1994 - 1997	Bogazici University, Institute Of Science, Sistem Ve Kontrol Mühendisliği (YI) (Tezli), Turkey
Undergraduate 1989 - 1994	Bogazici University, Faculty Of Engineering, Department Of Mechanical Engineering, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Egocentric Navigation and its Applications, Vanderbilt University, Elektrik Elektronik Müh. Böl., 2003

Postgraduate, Fusion of soft computing techniques in control applications, Boğaziçi Üniversitesi, Sistem Ve Kontrol Mühendisliği (YI) (Tezli), 1997

Academic Titles / Tasks

Associate Professor 2020 - Continues	Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering
Assistant Professor 2018 - 2020	Middle East Technical University, Faculty of Engineering, Department of Mechanical Engineering

Assistant Professor
2004 - 2018

Middle East Technical University, Faculty of Engineering, Department of
Mechanical Engineering

Lecturer PhD
2003 - 2004

Middle East Technical University, Faculty of Engineering, Department of
Mechanical Engineering

Research Assistant
1995 - 1997

Bogazici University, Faculty Of Engineering

Supported Projects

1. DÖLEN M., Engiz İ. M., HORASAN A., KOKU A. B., Project Supported by Higher Education Institutions, Görüntü işleme ve duyucu verileri ile kapalı alanlarda konumlama sistemi geliştirilmesi, 2016 - 2016
2. Koku A. B., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, DPT: Engelibeli Arazilerde Kullanılacak Askeri Amaçlı Robot Taban Tasarımı, 2006 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Mathematical and Machine Learning Approaches for Classification of Protein Secondary Structure Elements from α Coordinates**
Sekmen A., Al Nasr K., Bilgin B., KOKU A. B., Jones C.
Biomolecules, vol.13, no.6, 2023 (SCI-Expanded)
2. **Multiple human trajectory prediction and cooperative navigation modeling in crowded scenes**
Hacinecipoglu A., KONUKSEVEN E. İ., KOKU A. B.
INTELLIGENT SERVICE ROBOTICS, vol.13, no.4, pp.479-493, 2020 (SCI-Expanded)
3. **Fast head detection in arbitrary poses using depth information**
HACINECİPOĞLU A., KONUKSEVEN E. İ., KOKU A. B.
SENSOR REVIEW, vol.40, no.2, pp.175-182, 2020 (SCI-Expanded)
4. **Localization for mobile robots using skyline in panoramic images**
KOKU A. B.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.3, pp.1630-1644, 2019 (SCI-Expanded)
5. **Similarity matrix framework for data from union of subspaces**
Aldroubi A., Sekmen A., Koku A. B., Cakmak A. F.
APPLIED AND COMPUTATIONAL HARMONIC ANALYSIS, vol.45, no.2, pp.425-435, 2018 (SCI-Expanded)
6. **Improving the trajectory tracking performance of autonomous orchard vehicles using wheel slip compensation**
BAYAR G., Bergerman M., KONUKSEVEN E. İ., KOKU A. B.
BIOSYSTEMS ENGINEERING, vol.146, pp.149-164, 2016 (SCI-Expanded)
7. **Dynamic modeling and parameter estimation for traction, rolling, and lateral wheel forces to enhance mobile robot trajectory tracking**
BAYAR G., KOKU A. B., KONUKSEVEN E. İ.
ROBOTICA, vol.33, no.10, pp.2204-2220, 2015 (SCI-Expanded)
8. **Localization and control of an autonomous orchard vehicle**
BAYAR G., Bergerman M., KOKU A. B., KONUKSEVEN E. İ.
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.115, pp.118-128, 2015 (SCI-Expanded)
9. **Reliability of a Novel Visual Feedback System Developed for Increasing the Efficiency of Posterior Pelvic Tilt Exercise**

- Mengi G., Gencay-Can A., Demirsoy N., Tomsuk E., Koku B., Beyazova M.
JOURNAL OF MUSCULOSKELETAL PAIN, vol.22, no.3, pp.237-241, 2014 (SCI-Expanded)
10. **Pressure prediction on a variable-speed pump controlled hydraulic system using structured recurrent neural networks**
KILIÇ E., DÖLEN M., ÇALIŞKAN H., KOKU A. B., Balkan T.
CONTROL ENGINEERING PRACTICE, vol.26, pp.51-71, 2014 (SCI-Expanded)
 11. **Accurate pressure prediction of a servo-valve controlled hydraulic system**
KILIÇ E., DÖLEN M., KOKU A. B., ÇALIŞKAN H., Balkan T.
MECHATRONICS, vol.22, no.7, pp.997-1014, 2012 (SCI-Expanded)
 12. **Position estimation for timing belt drives of precision machinery using structured neural networks**
KILIÇ E., DOĞRUER C. U., DÖLEN M., KOKU A. B.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.29, pp.343-361, 2012 (SCI-Expanded)
 13. **Outdoor mapping and localization using satellite images**
DOĞRUER C. U., Koku A. B., Dolen M.
ROBOTICA, vol.28, pp.1001-1012, 2010 (SCI-Expanded)
 14. **Novel solutions for Global Urban Localization**
DOĞRUER C. U., KOKU A. B., DÖLEN M.
ROBOTICS AND AUTONOMOUS SYSTEMS, vol.58, no.5, pp.634-647, 2010 (SCI-Expanded)
 15. **Analysis and estimation of motion transmission errors of a timing belt drive**
KILIÇ E., DÖLEN M., KOKU A. B.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, no.5, pp.883-897, 2010 (SCI-Expanded)
 16. **Comparison of three orientation agreement strategies in self-propelled particle systems with turn angle restrictions in synchronous and asynchronous settings**
Samiloglu A. T., Gazi V., KOKU A. B.
ASIAN JOURNAL OF CONTROL, vol.10, no.2, pp.212-232, 2008 (SCI-Expanded)
 17. **An Internet-assisted experimental environment suitable for the reinforcement of undergraduate teaching of advanced control techniques**
Koku A. B., KAYNAK O.
IEEE TRANSACTIONS ON EDUCATION, vol.44, no.1, pp.24-28, 2001 (SCI-Expanded)

Articles Published in Other Journals

1. **Pose invariant people detection in point clouds for mobile robots**
Hacinecipoglu A., Konukseven E. İ., Koku A. B.
International Journal of Mechanical Engineering and Robotics Research, vol.9, pp.709-715, 2020 (Scopus)
2. **CUR Decompositions, Similarity Matrices, and Subspace Clustering**
Aldroubi A., Hamm K., KOKU A. B., Sekmen A.
Frontiers in Applied Mathematics and Statistics, vol.4, 2019 (Scopus)
3. **Design and implementation of a 3D range scanner for mobile robots**
ASLAN G., KONUKSEVEN E. İ., Koku B.
Key Engineering Materials, vol.572, no.1, pp.644-647, 2014 (Scopus)
4. **Yapay Sinir Ağ Modellerinin Valf Denetimli Hidrolik Bir Sistemin Uzun Süreli Basınç Tahmininde Kullanılması**
KILIÇ E., ÇALIŞKAN H., DÖLEN M., KOKU A. B., BALKAN R. T.
Mühendis ve Makina, vol.53, pp.50-61, 2012 (Peer-Reviewed Journal)
5. **Design of a Configurable All Terrain Mobile Robot Platform**
BAYAR G., KOKU A. B., KONUKSEVEN E. İ.
International Journal of Mathematical Models and Methods in Applied Sciences, vol.3, pp.366-373, 2009 (Scopus)
6. **Global urban localization of an outdoor mobile robot with genetic algorithms**

- DOĞRUER C. U., Koku A. B., DÖLEN M.
Springer Tracts in Advanced Robotics, vol.44, pp.103-112, 2008 (Scopus)
7. **ATV Tabanlı İnsansız Kara Aracı Geliştirilmesi**
BAYAR G., KONUKSEVEN E. İ., KOKU A. B., BALKAN R. T.
Makina Tasarım ve İmalat Dergisi, vol.9, pp.55-66, 2007 (Peer-Reviewed Journal)
 8. **Novel Position Estimators for Timing Belt Drives**
KILIÇ E., DÖLEN M., KOKU A. B., DOĞRUER C. U.
Journal of Automation, Mobile Robotics, and Intelligent Systems, vol.1, no.2, pp.55-61, 2007 (Scopus)
 9. **Novel position estimators for timing belt drivers**
KILIÇ E., DÖLEN M., KOKU A. B., DOĞRUER C. U.
Journal of Automation Mobile Robotics and Intelligent Systems, vol.1, pp.55-61, 2007 (Scopus)
 10. **A Test Setup for Evaluating Long-term Measurement Characteristics of Optical Mouse Sensors**
KANBUROGLU F. A., DÖLEN M., KOKU A. B.
Journal of Automation Mobile Robotics and Intelligent Systems, vol.1, pp.71-75, 2007 (Scopus)
 11. **Nonlinear Position Estimators based on Artificial Neural Networks for Low Cost Manufacturing Systems**
KILIÇ E., DÖLEN M., KOKU A. B.
Journal of Automation, Mobile Robotics, and Intelligent Systems, vol.1, pp.40-44, 2007 (Scopus)
 12. **Dokunsal Kuvvet Geri Beslemeli Cihaz Tasarımı**
BAŞER Ö., KONUKSEVEN E. İ., KOKU A. B.
Makina Tasarım ve İmalat Dergisi, vol.7, pp.68-78, 2005 (Peer-Reviewed Journal)
 13. **Toward egocentric navigation**
Kawamura K., Koku A. B., Wilkes M., Peters R. A., Sekmen A.
International Journal of Robotics and Automation, vol.17, no.4, pp.135-145, 2002 (Scopus)

Books & Book Chapters

1. **Global Urban Localization of Outdoor Mobile Robots using Genetic Algorithms**
DOĞRUER C. U., KOKU A. B., DÖLEN M.
in: Springer Tracts in Advanced Robotics, Bruno Siciliano, Oussama Khatib, Frans Groen, Editor, Springer, pp.103-112, 2008
2. **Effects of Asynchronism and Neighborhood Size on Clustering in Self-propelled Particle System**
ŞAMİLOĞLU A. T., GAZİ V., KOKU A. B.
in: Computer and Information Sciences – ISCIS 2006 : Lecture Notes in Computer Science, Albert Levi, Erkay Savas, Hüsnü Yenigün, Selim Balcısoy, Yücel Saygın, Editor, Springer, pp.665-676, 2006
3. **Asynchronous Cyclic Pursuit**
ŞAMİLOĞLU A. T., GAZİ V., KOKU A. B.
in: From Animals to Animats 9 - Lecture Notes in Artificial Intelligence : Subseries of Lecture Notes in Computer Science, Stefano Nolfi, Gianluca Baldassarre, Raffaele Calabretta, John C. T. Hallam, Davide Marocco, Jean-Arcady Meyer, Orazio Miglino, Domenico Parisi, Editor, Springer, pp.667-678, 2006
4. **Perception-Based Navigation for Mobile Robots**
KAWAMURA K., WILKES D. M., KOKU A. B., KESKİNPALA T.
in: Multi-Robot Systems: From Swarms to Intelligent Automata, Schultz, Alan C., Parker, Lynne, Editor, Springer Science, pp.225-234, 2002

Refereed Congress / Symposium Publications in Proceedings

1. **Satellite Imagery-Based Mapping Solutions for Autonomous Navigation in Outdoor Settings**
DOĞRUER C. U., Koku B., DÖLEN M.

- 10th International Conference on Control, Decision and Information Technologies, CoDIT 2024, Valletta, Malta, 1 - 04 July 2024, pp.37-42
2. **Using Wheel Slippage for Improved Maneuverability of 4 Wheel Steering Vehicles**
ATA E., KOKU A. B.
11th International Conference on Mechatronics and Control Engineering, ICMCE 2023, Athens, Greece, 29 - 31 January 2023, pp.159-171
 3. **Deep Learning for Assignment of Protein Secondary Structure Elements from C Coordinates**
Nasr K. A., Sekmen A., Bilgin B., Jones C., KOKU A. B.
2021 IEEE International Conference on Bioinformatics and Biomedicine, BIBM 2021, Virtual, Online, United States Of America, 9 - 12 December 2021, pp.2546-2552
 4. **Automatic Extraction of the Non-Urban Roads from Satellite Images using Artificial Neural Network**
GHAZIANI M., KONUKSEVEN E. İ., KOKU A. B.
8th International Symposium on Innovative Technologies in Engineering and Science, Bursa, Turkey, 23 - 25 October 2020, vol.3, no.96, pp.491-500
 5. **Slippage Estimation of Two Wheeled Mobile Robot Using Recurrent Deep Neural Network**
Özçil O., Koku A. B., Konukseven E. İ.
2019 International Conference on Artificial Intelligence, Robotics and Control, AIRC 2019, Cairo, Egypt, 14 - 16 December 2019, pp.7-13
 6. **Pose Invariant People Detection in Point Clouds for Mobile Robots**
Hacnecipoğlu A., Konukseven E. İ., Koku A. B.
2019 The 3rd International Conference on Advances in Artificial Intelligence (ICAAI 2019), İstanbul, Turkey, 26 - 28 October 2019, pp.1-7
 7. **Behavior-Based Approach for Cooperative Control of a Haptic-driven Mobile Robot**
Mohamadi Y., KONUKSEVEN E. İ., KOKU A. B.
23rd International Conference on Mechatronics Technology (ICMT), Salerno, Italy, 23 - 26 October 2019
 8. **Slippage Estimation of a two wheeled Mobile Robot using Feedforward Deep Neural Network**
ÖZÇİL İ., KONUKSEVEN E. İ., KOKU A. B.
ICCAMMEN 2018, 1st International Conference on Advances in Mechanical and Mechatronics Engineering, Ankara, Turkey, 8 - 09 November 2018
 9. **Enhanced Deep Learning with Improved Feature Subspace Separation**
PARLAKTUNA M., SEKMEN a., KOKU A. B., ABDUL MALEK A.
Internatinal Conference on Artificial Intelligence and Data Processing (IDAP 2018), Malatya, Turkey, 28 - 30 September 2018
 10. **To Train or not to Train**
KOKU A. B., ÇAKIR A., PARLAKTUNA M., SEKMEN A.
14th IEEE International Conference on Control and Automation, ICCA 2018, Alaska, United States Of America, 12 - 15 June 2018, pp.835-840
 11. **Lazer Mesafe Ölçümü ve Görsel Veri Kullanarak Adaptif Yol Bulma**
DEMİR S. Ö., ERTOP T. E., KONUKSEVEN E. İ., KOKU A. B.
TORK 2018 Türkiye Robotbilim Konferansı, İstanbul, Turkey, 12 - 14 April 2018
 12. **Optik Fare Algılayıcılarının Mobil Robotlarda Kullanılarak Konum Tahminlerinin İyileştirilmesi**
ÖZÇİL İ., KOKU A. B., KONUKSEVEN E. İ.
TORK 2018, Türkiye Robot Bilim Konferansı, İstanbul, Turkey, 12 - 14 April 2018
 13. **Lazer Mesafe Ölçümü ve Görsel Veri Kullanarak Adaptif Yol Bulma**
DEMİR S. Ö., ERTOP t. e., KONUKSEVEN E. İ., KOKU A. B.
Türkiye Robotbilim Konferansı - TORK 2018, İstanbul, Turkey, 12 - 14 April 2018
 14. **Principal Coordinate Clustering**
SEKMEN a., ALDROUBİ A., HAMM K., KOKU A. B.
IEEE International Conference on Big Data 2017 (IEEE Big Data2017), Boston, United States Of America, 11 - 14 December 2017
 15. **Unsupervised Deep Learning for Subspace Clustering**

SEKMEN a., KOKU A. B., PARLAKTUNA M., ABDULMALEK A., VANAMALA N.

IEEE International Conference on Big Data 2017 (IEEE Big Data2017), Boston, United States Of America, 11 - 14 December 2017

16. **An Adaptive Approach for Road Boundary Detection Using 2D LIDAR Sensor**
Demir S. O., Ertop T. E., KOKU A. B., KONUKSEVEN E. İ.
IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI), Daegu, South Korea, 16 - 18 November 2017, pp.206-211
17. **Matrix resconstruction: Skeleton decomposition versus singular value decomposition**
SEKMEN a., ALDROUBİ A., KOKU A. B., HAMM K.
International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS), Seattle, United States Of America, 9 - 12 July 2017, pp.535-542
18. **Skeleton Decomposition Analysis for Subspace Clustering**
Sekmen A., Aldroubi A., Koku A. B.
4th IEEE International Conference on Big Data (Big Data), Washington, Kiribati, 5 - 08 December 2016, pp.1841-1848
19. **Kapalı Alanlarda Robot Konumlaması için Stereo Görüntüler ve Eylemsizlik Duyucusu Kullanılarak Kamera Yörüngesinin Kestirilmesi**
HORASAN A., İSMAİL E., DÖLEN M., KOKU A. B.
Türkiye Robotbilim Konferansı (ToRK-2016), İstanbul, Turkey, 2 - 03 November 2016, vol.1
20. **A Conditional Coverage Path Planning Method for an Autonomous Lawn Mower**
KAROL A., KONUKSEVEN E. İ., KOKU A. B., ÇİÇEK S.
17. Uluslararası Makina Tasarım ve İmalat Kongresi, Bursa, Turkey, 12 - 15 July 2016
21. **Uydu Görüntülerinden Yapılandırılmamış Yolların İlkili Görüntü Bölütlemesi Kullanılarak Bulunması**
GHAZİANİ M., MOHAMADI Y., DÖNDER A., KONUKSEVEN E. İ., KOKU A. B.
Türkiye Otonom Robotlar Konferansı, Turkey, 6 - 07 November 2014
22. **Mobil Bir Robotun Hareketine Yüzey EğimiEtkisinin İncelenmesi**
BAYAR G., KOKU A. B., KONUKSEVEN E. İ.
Türkiye Otonom Robotlar Konferansı, TORK 2014, Ankara, Turkey, 6 - 07 November 2014
23. **2 Boyutlu ve 3 Boyutlu Görsel Geri Beslemenin ve Ekran Büyüklüğünün Uzaktan Araç Kontrolü Üzeindeki Etkisi**
ÖLMEZ H., KONUKSEVEN E. İ., KOKU A. B.
Türk Otomatik Kontrol Ulusal Toplantısı (TOK14), Kocaeli, Turkey, 11 - 13 September 2014, pp.523-527
24. **Üç Boyutlu Haritalama ve Konumlama Uygulamaları için Donanım ve Yazılım Platformu Geliştirilmesi**
HACINECİPOĞLU A., KOKU A. B., KONUKSEVEN E. İ.
Türk Otomatik Kontrol Ulusal Toplantısı (TOK14), Kocaeli, Turkey, 11 - 13 September 2014, pp.573-577
25. **A New Hardware-in-the-Loop Simulator for Control Engineering Education**
USENMEZ S., YAMAN U., DOLEN M., KOKU A. B.
IEEE Global Engineering Education Conference, İstanbul, Turkey, 3 - 05 April 2014, pp.1-8
26. **Manuel Sürülen Platform Üzerinde SLAM Uygulaması**
HACINECİPOĞLU A., DEMİR S. Ö., UĞURLU M. Ç., KOKU A. B., KONUKSEVEN E. İ.
Türkiye Otonom Robotlar Konferansı (TORK), Turkey, 01 January 2014
27. **Hareket Denetimi Uygulamalarında Kullanılan Sayısal Filtrelerin FPGA ile Gerçekleştirilmesi**
YAMAN U., MUTLU B. R., DÖLEN M., KOKU A. B.
Türk Otomatik Kontrol Ulusal Toplantısı (TOK13), Malatya, Turkey, 26 - 28 September 2013, pp.388-393
28. **Hareketli Robot Dinamik Modelinin Tekerlek Kuvvetleri Kullanılarak İyileştirilmesi**
BAYAR G., KOKU A. B., KONUKSEVEN E. İ.
Türk Otomatik Kontrol Ulusal Toplantısı (TOK13), Malatya, Turkey, 26 - 28 September 2013
29. **A Histogram-based Thresholding Method for Extracting non-urban Roads from Satellite Images**
GHAZİANİ M., MOHAMADI Y., KONUKSEVEN E. İ., KOKU A. B.
The 20th Int. Conf. on Mechatronics and Machine Vision in Practice- M2ViP, 18 - 20 September 2013
30. **A Comparative Study on Distance Metrics in Self- Supervised Unstructured Road Detection Domain**

- ÖZÜTEMİZ K. B., HACINECİPOĞLU A., KOKU A. B., KONUKSEVEN E. İ.
Mechatronics and Machine Vision in Practice, M2VIP, 2013, Ankara, Turkey, 20 September 2013
31. **Histogram-Based Thresholding Method for Extracting Non- Urban Roads from Satellite Images**
GHAZİANİ M., MOHAMADİ Y., KONUKSEVEN E. İ., KOKU A. B.
Mechatronics and Machine Vision in Practice, M2VIP, 2013, Ankara, Turkey, 20 September 2013
32. **Adaptive unstructured road detection using close range stereo vision**
ÖZÜTEMİZ K. B., Hacinecipoglu A., KOKU A. B., KONUKSEVEN E. İ.
2013 9th Asian Control Conference, ASCC 2013, İstanbul, Turkey, 23 - 26 June 2013
33. **Self-learning Road Detection with Stereo Vision**
Ozudemiz K. B., Hacinecipoglu A., KOKU A. B., KONUKSEVEN E. İ.
21st Signal Processing and Communications Applications Conference (SIU), CYPRUS, 24 - 26 April 2013
34. **Extraction of unstructured roads from satellite images using binary image segmentation**
GHAZİANİ M., MOHAMADİ Y., KOKU A. B., KONUKSEVEN E. İ.
Signal Processing and Communications Applications Conference (SIU13), Girne, Cyprus (Kkct), 23 - 25 April 2013
35. **Stereo Görüntü ile Kendi Kendine Öğrenen Yol Saptama**
ÖZÜTEMİZ K. B., HACINECİPOĞLU A., KOKU A. B., KONUKSEVEN E. İ.
Signal Processing and Communications Applications Conference (SIU13), Girne, Cyprus (Kkct), 23 - 25 April 2013
36. **Evaluation of Haptic Feedback Cues on Vehicle Teleoperation Performance in an Obstacle Avoidance Scenario**
HACINECİPOĞLU A., KONUKSEVEN E. İ., KOKU A. B.
IEEE World Haptics Conference (WHC), Daejeon, South Korea, 14 - 18 April 2013, pp.689-694
37. **A New Hardware-in-the-Loop Simulator for CNC Machine Applications**
USENMEZ S., MUTLU B. R., Yaman U., KILIÇ E., Dolen M., Koku A. B.
IEEE International Conference on Mechatronics (ICM), Vicenza, Italy, 27 February - 01 March 2013
38. **Mobil Robotlar için Tarama Platformunun Tasarımı ve Uygulaması**
ASLAN G., KONUKSEVEN E. İ., KOKU A. B.
TİMAK 2012 - Tasarım İmalat ve Analiz Kongresi, Balıkesir, Turkey, 29 - 30 November 2012
39. **Yapay Sinir Ağ Modellerinin Valf Denetimli Hidrolik Bir Sistemin Uzun Süreli Basınç Tahmininde Kullanılması**
KILIÇ E., ÇALIŞKAN H., DÖLEN M., KOKU A. B., BALKAN R. T.
VI. Ulusal Hidrolik Pnömatik Kongresi, İzmir, Turkey, 12 - 15 October 2011
40. **Comparison of Kinect and Bumblebee2 in Indoor Environments**
TARÇIN S., ÖZÜTEMİZ K. B., KOKU A. B., KONUKSEVEN E. İ.
12th International Workshop on Research and Education in Mechatronics (REM), Kocaeli, Turkey, 15 - 16 September 2011
41. **Long-term prediction of hydraulic system dynamics via structured recurrent neural networks**
KILIÇ E., DÖLEN M., KOKU A. B.
2011 IEEE International Conference on Mechatronics, ICM 2011, İstanbul, Turkey, 13 - 15 April 2011, pp.330-335
42. **Experimental evaluation of cable drum systems as linear motion sensors**
KILIÇ E., DÖLEN M., KOKU A. B.
IEEE International Conference on Mechatronics (ICM 2011), 13 - 15 April 2011, pp.666-671
43. **Rapid training data generation from image sequences for pattern recognition**
DİLAN R. A., KOKU A. B., KONUKSEVEN E. İ.
2011 IEEE International Conference on Mechatronics, ICM 2011, İstanbul, Turkey, 13 - 15 April 2011, pp.457-462
44. **Decoding Process and Characterization Studies of a 2D Laser Scanning Range Finder**
BAYAR G., KOKU A. B., KONUKSEVEN E. İ.
AzC IFToMM 2010 International Symposium of Mechanism and Machine Science, İzmir, Turkey, 5 - 08 October 2010, pp.295-299
45. **Geri Besleme Doğrusallaştırması Yöntemiyle Hareketli Robotlarda Düz Çizgi Takibi**
ŞAMİLOĞLU A. T., GAZİ V., KOKU A. B.
Türk Otomatik Kontrol Ulusal Toplantısı (TOK10), Kocaeli, Turkey, 21 - 23 September 2010

46. **Theoretical and experimental determination of dynamic friction coefficient for a cable-drum system**
BAYAR G., KONUKSEVEN E. İ., KOKU A. B.
3rd European Conference on Mechanism Science, EUCOMES 2010, Cluj-Napoca, Romania, 14 - 18 September 2010, vol.5, pp.345-352
47. **Sliding Mode Control of a Power Screw Driven Positioning Table**
BAYAR G., KONUKSEVEN E. İ., KOKU A. B.
3rd International Conference on Advanced Design and Manufacture, Nottingham, United Kingdom, 8 - 10 September 2010, vol.450, pp.325-328
48. **Design of Circling Around a Target Controllers for Mobile Robots by Feedback Linearization**
ŞAMİLOĞLU A. T., GAZİ V., KOKU A. B.
IFAC Workshop on Adaptation and Learning in Control and Signal Processing, 26 - 28 August 2010, vol.43, pp.138-143
49. **A Novel Command Generation Method with Variable Feedrate utilizing FGPA for Motor Drives**
YAMAN U., DÖLEN M., KOKU A. B.
IEEE Workshop on Intelligent Solutions in Embedded Systems (WISES), Heraklion, Greece, 8 - 09 July 2010, vol.1, pp.67-72
50. **A novel command generation method with variable feedrate utilizing FPGA for motor drives**
Yarnan U., DÖLEN M., KOKU A. B.
2010 8th IEEE Workshop on Intelligent Solutions in Embedded Systems, WISES 2010, Heraklion, Greece, 8 - 09 July 2010, pp.67-72
51. **Development of a Steered Unmanned Ground Electric Vehicle Research Platform**
BAYAR G., KOKU A. B., KONUKSEVEN E. İ.
International Unmanned Vehicles Workshop, İstanbul, Turkey, 10 June 2010, pp.117-124
52. **Hareketli Bir Platform İçin Yüzey Değişimlerinin Kayma Geçişleri Kullanılarak Bulunması**
BAYAR G., KOKU A. B., KONUKSEVEN E. İ.
5. Otomotiv Teknolojileri Kongresi OTEKON 2010, Bursa, Turkey, 7 - 08 June 2010
53. **Performance Evaluation of Different Real-Time Motion Controller Topologies Implemented on a FPGA**
MUTLU B. R., YAMAN U., DÖLEN M., KOKU A. B.
12th International Conference on Electrical Machines and Systems, Tokyo, Japan, 15 - 18 November 2009, pp.902-907
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Academic and Administrative Experience

2008 - 2011	Deputy Head of Department	Middle East Technical University, Faculty of Engineering, Makine Mühendisliği Bölümü
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Courses

Design of Intelligent Machines, Postgraduate, 2021 - 2022, 2020 - 2021

MECHATRONIC DESIGN, Undergraduate, 2019 - 2020, 2017 - 2018

INTRODUCTION TO MECHATRONICS, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

COMPUTER CONTROL OF MACHINES, Postgraduate, 2019 - 2020

MECHATRONIC COMPONENTS AND INSTRUMENTATION, Undergraduate, 2019 - 2020

Advising Theses

KOKU A. B., Development of synthetic and real-world pose estimation dataset to be used in human tracking system, Postgraduate, M.ERSOY(Student), 2022

KOKU A. B., Precise external positioning of machine tools using angular measurements from digital cameras, Postgraduate, İ.EGE(Student), 2022

KOKU A. B., Topological navigation algorithm design and analysis using spherical images, Postgraduate, Y.ŞAHİN(Student), 2022

KOKU A. B., Development of an indoor reactive topological navigation method using spherical images, Postgraduate, Y.ŞAHİN(Student), 2021

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KOKU A. B., Design, development and manufacturing of an all terrain modular robot platform, Postgraduate, M.CİHANGİR(Student), 2010

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Publication: 137

Citation (WoS): 337

Citation (Scopus): 502

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Research Areas

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