

Asst. Prof. ERDEM ARSLAN

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666) Extension: 32958

Fax Phone: [+90 352 437 5784](tel:+903524375784)

Email: erdemarslan@erciyes.edu.tr

Web: <http://aves.erciyes.edu.tr/erdemarslan/>

Address: Erciyes Üniversitesi Mühendislik Fakültesi Mekatronik Mühendisliği
Bölümü Melikgazi/Kayseri



Education Information

2011 - 2018	Doctorate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Turkey
2008 - 2011	Post Graduate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Turkey
2006 - 2009	Undergraduate Double Major, Erciyes Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği, Turkey
2004 - 2008	Under Graduate, Erciyes Üniversitesi, Mühendislik Fakültesi, Elektrik- Elektronik Mühendisliği, Turkey

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

2017	Uygulamalı Proje Önerisi Yazma Eğitimi, Education Management and Planning, ORAN Kalkınma Ajansı
2016	Robot Dinamiği ve Kontrolü Çalıştayı, Education Management and Planning, Gazi Üniversitesi
2015	Genç Türkiye Zirvesi, Education Management and Planning, T.C. Gençlik ve Spor Bakanlığı
2014	Teknogirişimcilik Eğitim Sertifikası, Education Management and Planning, Türkiye Cumhuriyeti Bilim, Sanayi ve Teknoloji Bakanlığı
2014	Kinematik Sentez Kış Okulu, Education Management and Planning, Erciyes Üniversitesi

Dissertations

2018	ALTI BACAKLI MOBİL BİR ROBOT İÇİN PARALEL ÇÖZÜMLEME DESTEKLİ DENGELİ VE YÜRÜYÜŞ KONTROLÜ, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Doctorate
2011	Altı Bacaklı Yürüyen Robotun Tasarımı ve Dinamik Analizi, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Mekatronik Mühendisliği, Post Graduate

Research Areas

Technical Sciences, Computer Sciences, algorithms, Simulation and Modelling, Parallel Algorithms, Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Robotics, Mechatronics

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

I. **ODE (Open Dynamics Engine) based stability control algorithm for six legged robot**

YILDIRIM Ş., ARSLAN E.

MEASUREMENT, vol.124, pp.367-377, 2018 (Journal Indexed in SCI)

Articles Published in Other Journals

I. **A Design Methodology for Cuttlefish Shaped Amphibious Robot**

Arslan E., Akça K.

European Journal of Science and Technology, vol.12, no.1, pp.214-224, 2019 (Refereed Journals of Other Institutions)

II. **A Comparison of Six Legged ODE (Open Dynamics Engine) Based Gait control Algorithm and Standard Walking Gaits**

YILDIRIM Ş., ARSLAN E.

Avrupa Bilim ve Teknoloji Dergisi, 2019 (Refereed Journals of Other Institutions)

III. **ODE (Open Dynamics Engine) Based Walking Control Algorithm for Six Legged Robot**

YILDIRIM Ş., ARSLAN E.

JOURNAL OF NEW RESULTS IN SCIENCE (JNRS), vol.7, no.2, pp.35-46, 2018 (International Refereed University Journal)

IV. **ODE Based Joint Controller Design For Legged Robots**

ARSLAN E., YILDIRIM Ş.

Journal of Current Construction Issues. Civil Engineering Present Problems, Innovative Solutions- Optimization in Business and Engineering, no.1, pp.270-279, 2017 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **A New Walking Performance Criteria for ODE (Open Dynamics Engine) Based Six Legged Robot Control**

YILDIRIM Ş., ARSLAN E.

The International Conference on Material Science, Mechanical and Automotive Engineerings and Technology, İzmir, Turkey, 10 - 12 April 2018, pp.1-5

II. **Expandable Range Communication Infrastructure For Robot Colonies**

ARSLAN E., Öztürk O., YILDIRIM Ş.

24. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SİU2016), Zonguldak, Turkey, 16 - 19 May 2016, pp.117-120

III. **ESTIMATION OF CONTACT FORCES ON REAL-TIME SIX LEGGED MOBILE ROBOT WITH ODE (OPEN DYNAMICS ENGINE)**

ARSLAN E., YILDIRIM Ş.

International Conference on Advances in Mechanical Engineering ICAME 2016, İstanbul, Turkey, 10 - 13 May 2016, pp.185-190

IV. **Altı Bacaklı Mobil Robot için ODE Destekli Denge Kontrolü**

YILDIRIM Ş., ARSLAN E.

Ulusal Makina Teorisi Sempozyumu 2015, İzmir, Turkey, 14 - 17 June 2015, pp.1-6

Other Publications

I. **Design and Dynamic Analysis of Six Legged Walking Robot**

YILDIRIM Ş., ARSLAN E.

Other, pp.112-117, 2012

Supported Projects

2015 - 2016	ÖĞRETİLEBİLİR YÖRÜNGELİ MOBİLTAŞIMA ROBOTU, Project Supported by Other Official Institutions
2014 - 2015	Filografi Tabloları için CNC Çivi Çakma Tezgâhı İmalatı, Project Supported by Other Official Institutions
2009 - 2011	ESNEK ÜRETİM HATTININ OPTİMUM TASARIMI VE ÜRETİMİ, Industrial Thesis Project

Memberships / Tasks in Scientific Organizations

2014 - Continues Member

Scientific Refereeing

February 2018 26. IEEE SİNYAL İŞLEME ve İLETİŞİM UYGULAMALARI KURULTAYI, Other Journals

Scholarships

2013 - Continues 2211-C, TUBITAK

Awards

March 2013 10.ODTÜ ULUSLARARASI ROBOT GÜNLERİ SERBEST KATEGORİ 2.Sİ, ODTÜ ROBOT TOPLULUĞU