

Assoc. Prof. MEHMET İTİK

Personal Information

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Education Information

Doctorate, University of Sheffield, Faculty Of Engineering, Automatic Control And Systems Engineering, United Kingdom
2007 - 2011

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2003 - 2005

Undergraduate, Gazi University, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Nonlinear Dynamical Systems with Applications to Cancer Modelling and Control, University of Sheffield,
Faculty Of Engineering , Automatic Control And Systems Engineering, 2011

Postgraduate, Kayan Kipli Denetim Kullanarak Esnek Bir Kirişin Aktif Titreşim Kontrolü, Gazi University, Fen Bilimleri
Enstitüsü, Makina Mühendisliği, 2005

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control,
Mechatronics, Acoustics and Noise Control, Mechanical Vibrations, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2015 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2011 - Continues

Research Assistant PhD, Karadeniz Technical University, Mühendislik Fakültesi, Makina Mühendisliği, 2011 - 2011

Research Assistant, Bozok Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Mühendisliği, 2003 - 2007

Academic and Administrative Experience

Karadeniz Technical University, Makina Mühendisliği, 2011 - Continues

Courses

Makina Dinamiđi, Undergraduate, 2015 - 2016

Advising Theses

İTİK M., Fuzzy control of conducting polymer actuators, Postgraduate, M.Sabetghadam(Student), 2014

Jury Memberships

Post Graduate, Tez Savunma Jürisi, KTÜ Makina Mühendisliđi, December, 2014

Appointment to Academic Staff-Assistant Professorship, Öğretim görevlisi alımı, Arsin Meslek Yüksek Okulu, September, 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **KABLO İLE SÜRÜLEN DÜZLEMSEL PARALEL BİR ROBOTUN İLERİ KİNEMATİK ÇÖZÜMÜ VE DENETİMİ**
SANCAK C., Yamaç F., İTİK M.
Konya Mühendislik Bilimleri Dergisi, vol.7, pp.862-874, 2019 (SCI-Expanded)
- II. **Model-free control of an electro-active polymer actuator**
SANCAK C., Yamac F., Itik M., Alici G.
MATERIALS RESEARCH EXPRESS, vol.6, no.5, 2019 (SCI-Expanded)
- III. **Hybrid force and position control of a conducting tri-layer electro-active polymer actuator**
COŞKUN M. Y., SANCAK C., Itik M., ALICI G.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.39, no.3, pp.288-296, 2017 (SCI-Expanded)
- IV. **Adaptive fuzzy-Chebyshev network control of a conducting polymer actuator**
Beyhan S., Itik M.
JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, vol.27, no.8, pp.1019-1029, 2016 (SCI-Expanded)
- V. **Optimal control of nonlinear systems with input constraints using linear time varying approximations**
Itik M.
Nonlinear Analysis: Modelling and Control, vol.21, no.3, pp.400-412, 2016 (SCI-Expanded)
- VI. **Fractional order control of conducting polymer artificial muscles**
Itik M., ŞAHİN E., AYAS M. Ş.
EXPERT SYSTEMS WITH APPLICATIONS, vol.42, no.21, pp.8212-8220, 2015 (SCI-Expanded)
- VII. **Force control of a tri-layer conducting polymer actuator using optimized fuzzy logic control**
Itik M., SABETGHADAM M., ALICI G.
SMART MATERIALS AND STRUCTURES, vol.23, no.12, 2014 (SCI-Expanded)
- VIII. **Inversion-based control of ionic polymer-metal composite actuators with nanoporous carbon-based electrodes**
VUNDER V., Itik M., POLDSALU I., PUNNING A., AABLOO A.
SMART MATERIALS AND STRUCTURES, vol.23, no.2, 2014 (SCI-Expanded)
- IX. **Repetitive control of a trilayer conjugated polymer actuator**
Itik M.
Sensors and Actuators, A: Physical, vol.194, pp.149-159, 2013 (SCI-Expanded)
- X. **ON THE STRUCTURE OF PERIODIC ORBITS ON A SIMPLE BRANCHED MANIFOLD**

- Itik M., Banks S. P.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.20, no.11, pp.3517-3528, 2010 (SCI-Expanded)
- XI. **On the calculation of the Kauffman bracket polynomial**
Itik M., Banks S. P.
APPLIED MATHEMATICS AND COMPUTATION, vol.216, no.2, pp.655-661, 2010 (SCI-Expanded)
- XII. **SDRE optimal control of drug administration in cancer treatment**
Itik M., Salamci M. U., Banks S. P.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.18, no.5, pp.715-729, 2010 (SCI-Expanded)
- XIII. **CHAOS IN A THREE-DIMENSIONAL CANCER MODEL**
Itik M., Banks S. P.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS, vol.20, no.1, pp.71-79, 2010 (SCI-Expanded)
- XIV. **Optimal control of drug therapy in cancer treatment**
Itik M., Salamci M. U., Banks S. P.
NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.71, no.12, 2009 (SCI-Expanded)
- XV. **Active vibration suppression of a flexible structure using sliding mode control**
Itik M., Salamci M. U.
JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.20, no.8, pp.1149-1158, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Konjuge elektroaktif bir polimer eyleyicinin mikro düzeyde yer deęiřtirmesinin görüntü tabanlı kayan kipli denetimi**
SANCAK C., COŐKUN M. Y., İTİK M.
Pamukkale Āeniversitesi MĀ¼hendislik Bilimleri Dergisi, vol.22, no.8, pp.629-635, 2016 (Peer-Reviewed Journal)
- II. **Vision based sliding mode control of micro displacement of a conjugated electroactive polymer actuator**
SANCAK C., COŐKUN M. Y., Itik M.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.22, no.8, pp.629-635, 2016 (ESCI)
- III. **Bilgisayarla Grmeye Dayalı Elektroaktif Polimer Hareketlerinin Elektrik Gerilimi Tahmini**
Bozkurt M. H., Gedikli E., İtik M.
Mühendislik Bilimleri ve Tasarım Dergisi, vol.2, no.3, pp.147-151, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Kablo ile Sürülen Düzlemsel Paralel Bir Robotun İleri Kinematik Çözümü ve Kontrolü**
SANCAK C., Yamaç F., İTİK M.
Ulusal Makine Teorisi Sempozyumu, Hatay, Turkey, 4 - 06 September 2019, pp.291-298
- II. **Kablo ile Sürülen Düzlemsel Paralel Bir Robotun Tasarımı ve Kontrolü**
SANCAK C., YAMAÇ F., İTİK M.
TOK2018 Otomatik Kontrol Ulusal Toplantısı, Kayseri, Turkey, 12 - 14 September 2018, pp.367-371
- III. **Mathematical Modelling of Chemotherapy for Non-Small Cell Lung Cancer**
İTİK M., ÜNSAL S., ZİHNİ N. B., TURHAN K.
Sixth RECOMB Satellite Workshop on Computational Cancer Biology (RECOMB-CCB), Los Angeles, United States Of America, 28 - 29 July 2017
- IV. **A framework for applying bioinformatics analysis of drug resistance to mathematical tumor models**
ÜNSAL S., ACAR A. C., İTİK M., KURT B., ÜNSAL Ü., TURHAN K.
NGS Tech Applications Congress 2017, United States Of America, 25 - 26 July 2017

- V. **A Method for Exploring Roots of Radiation Resistance in Cancer**
TURHAN K., KURT B., ÜNSAL S., İTİK M., ÜNSAL Ü.
NGS&Clinical Applications, Philadelphia, United States Of America, 25 - 29 July 2017
- VI. **Konjuge Elektroaktif Polimer Tabanlı Esnek Bir Manipülatörün Kinematik Modelinin Eldesi ve Deneysel Doğrulaması**
COŞKUN M. Y., SANCAK C., İTİK M.
Ulusal Makina Teorisi Sempozyumu, Trabzon, Turkey, 5 - 07 July 2017, pp.392-399
- VII. **Üç Katmanlı Konjuge Elektro-aktif Polimer Eyleyicilerde Tekrarlamalı Denetim Yöntemi ile Periyodik Bozucu Etkilerin Elenmesi**
SANCAK C., İTİK M.
Ulusal Makina Teorisi Sempozyumu, Trabzon, Turkey, 5 - 07 July 2017, pp.75-81
- VIII. **Kişiselleştirilmiş Tıp Uygulamaları ve Bir Örnek**
ÜNSAL S., ACAR A. C., İTİK M., KABATAŞ A., GEDİKLİ Ö., TURHAN K.
Tıp Bilişiminde Yenilikler Sempozyumu, Turkey, 25 March 2017
- IX. **Ag NANOPARTICLE DOPED REDUCED GRAPHENE OXIDE-BASED ELECTROACTIVE BIOPOLYMER ACTUATORS**
KAFTLEN H., İTİK M., ÇAKIR A. O., SANCAK C.
METECH'15 III: International Conference on Innovative Materials and Structures Technologies in Metallurgical Engineering, İstanbul, Turkey, 27 - 28 November 2015, pp.43-50
- X. **A Personalized Tumor Modeling Framework**
ÜNSAL S., ACAR A. C., İTİK M., KABATAŞ A., GEDİKLİ Ö., TURHAN K.
9th International Symposium on Health Informatics and Bioinformatics HIBIT 2015, Muğla, Turkey, 16 - 17 October 2015, pp.30
- XI. **Elektro-Aktif Üç Katmanlı Konjuge Bir Polimer Eyleyicinin Hibrit Kontrolü**
SANCAK C., COŞKUN M. Y., İTİK M.
Türk Otomatik Kontrol Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015, pp.15-20
- XII. **Elektro-aktif Üç Katmanlı Konjuge Polimer Bir Eyleyicinin Tekrarlamalı (Repetitive) Kontrol İle Kuvvet Denetimi**
SANCAK C., İTİK M.
Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, pp.801-809
- XIII. **Konjuge Tip Bir Elektro-Aktif Polimer Eyleyicinin Görüntü Tabanlı Kontrolü**
COŞKUN M. Y., İTİK M.
Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, pp.810-815
- XIV. **Vision Based Control of a Conjugated Electro-Active Polymer Actuator**
COŞKUN M. Y., İTİK M.
IEEE/ASME International Conference on Advanced Intelligent Mechatronics (AIM), Busan, South Korea, 7 - 11 July 2015, pp.824-829
- XV. **Bilgisayarlı Görmeye Dayalı Elektroaktif Polimer Hareketlerinden Elektrik Gerilimi Tahmini**
BOZKURT M. H., GEDİKLİ E., İTİK M.
Uluslararası Katılımlı VII. Ulusal Biyomekanik Kongresi, Isparta, Turkey, 16 - 18 October 2014, vol.2, no.3, pp.147-151
- XVI. **Robust control of a trilayer Conducting Polymer Actuator**
İTİK M., ULKER F. D., ALICI G.
Conference on Electroactive Polymer Actuators and Devices (EAPAD), California, United States Of America, 10 - 13 March 2014, vol.9056
- XVII. **Fuzzy Control of a Conjugated Polymer Actuator**
Sabetghadam M., İTİK M., ALICI G.
52nd IEEE Annual Conference on Decision and Control (CDC), Florence, Italy, 10 - 13 December 2013, pp.336-341
- XVIII. **Repetitive Control of an Artificial Muscle Actuator**
İTİK M.
9th Asian Control Conference (ASCC), İstanbul, Turkey, 23 - 26 June 2013

Supported Projects

Gedikli E., İtik M., TUBITAK Project, Üç Katmanlı Konjuge Elektro-Aktif Polimer Eyleyici Üretimi, Karakterizasyonu Ve Denetimi, 2014 - 2017

Metrics

Publication: 36

Citation (WoS): 198

Citation (Scopus): 221

H-Index (WoS): 7

H-Index (Scopus): 7