

## 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 Görmeye 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 Manipülâtörün 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**  
KAFTELEN H., İTİK M., Çakır 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. **KonjugeTip 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., Itik 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**  
Itik 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., Itik 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**  
Itik 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