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Education Information

Doctorate, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Sivil Havacılık Ana Bilim Dalı, Turkey 2013 - 2017

Dissertations

Doctorate, Havadan Alınan Görüntülerdeki Bulanıklığın Hava Aracı Otonom Performansı Yükselttilerek Önlenmesi, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Sivil Havacılık, 2017

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Aeronautical and Space Engineering, Flight Sciences, Aircraft System Technologies, Electrical / Electronic, Flight Control Systems, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Erciyes University, Havacılık Ve Uzay Bilimleri Fakültesi, Uzay Mühendisliği, 2020 - Continues
Research Assistant, Erciyes University, Havacılık Ve Uzay Bilimleri Fakültesi, Uçak Elektrik-Elektronik , 2013 - 2020

Courses

Bakım Uygulamaları II, Under Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

Hava Aracı Dinamiği ve Otomatik Kontrolü, Post Graduate, 2020 - 2021

Radar Sistemleri, Under Graduate, 2020 - 2021

Elektronik Göstergeler ve Sistemler, Under Graduate, 2019 - 2020, 2020 - 2021

Elektronik Göstergeler ve Sistemler, Under Graduate, 2018 - 2019, 2019 - 2020, 2020 - 2021

Uçuş Kararlılığı ve Otomatik Kontrol, Under Graduate, 2020 - 2021

İleri Modern Kontrol Sistemleri, Post Graduate, 2020 - 2021

Hava Aracı Elektrik Sistemleri Uygulamaları, Under Graduate, 2020 - 2021

Hava Aracı Yapı ve Sistemleri Uygulamaları, Under Graduate, 2019 - 2020

İnsansız Hava Araçları, Under Graduate, 2018 - 2019

Uçak Temel Bilgisi, Under Graduate, 2019 - 2020

Hava Aracı Sistemleri, Under Graduate, 2017 - 2018

Lojik Devre Tasarımı , Under Graduate, 2018 - 2019

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

- I. **Constrained control of helicopter vibration to reduce motion blur**
Oktay T., Celik H., Türkmen I.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, pp.1326-1336, 2018 (Journal Indexed in SCI)
- II. **Maximizing autonomous performance of fixed-wing unmanned aerial vehicle to reduce motion blur in taken images**
Oktay T., Celik H., Türkmen I.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.232, pp.857-868, 2018 (Journal Indexed in SCI)
- III. **Neural network based redesign of morphing UAV for simultaneous improvement of roll stability and maximum lift/drag ratio**
Oktay T., Arık S., Türkmen I., Uzun M., Celik H.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, pp.1203-1212, 2018 (Journal Indexed in SCI)
- IV. **Incorporation of Neural Network to HPMHT for Tracking Multiple Targets**
TÜRKMEN I., ÇELİK H.
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.21, no.4, pp.3-6, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Autonomous flight performance improvement of the morphing aerial robot by aerodynamic shape redesign**
Çelik H., Oktay T., Uzun M.
Sakarya University Journal of Science, vol.23, no.1, pp.51-65, 2019 (National Refreed University Journal)
- II. **Mormonlar İle Müslümanlar Arasında Karşılıklı Hoşgörüye Dayanan İlişkilerin Nedenleri**
ÇELİK H., ULU M.
Route Education and Social Science Journal, vol.4, no.5, pp.178-186, 2017 (Other Refereed National Journals)
- III. **PID BASED HIERARCHICAL AUTONOMOUS SYSTEM PERFORMANCE MAXIMIZATION OF A HYBRID UNMANNED AERIAL VEHICLE (HUAUV)**
OKTAY T., UZUN M., ÇELİK h., KONAR M.
ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY A - Applied Sciences and Engineering, vol.18, pp.1, 2017 (Refereed Journals of Other Institutions)
- IV. **A novel learning algorithm to optimize the fuselage drag coefficient**
OKTAY T., ÇELİK H., UZUN M.
Sakarya University Journal Of Science, 2017 (National Refreed University Journal)
- V. **Model Predictive Control and Robustness Test of The Unmanned Aerial Vehicle (Zanka-I) in Various Turbulence**
Çelik H., Oktay T., Türkmen I.
Journal of Aeronautics and Space Technologies, vol.9, no.1, pp.31-42, 2016 (Refereed Journals of Other Institutions)
- VI. **İnsansız Küçük Bir Hava Aracının Zanka I Farklı Türbülans Ortamlarında Model Öngörülü Kontrolü ve Gürbüzlük Testi**
ÇELİK H., OKTAY T., TÜRKMEN İ.
Journal of Aeronautics and Space Technologies, vol.9, no.1, pp.31-42, 2016 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **Image based guidance for near rendezvous and docking of spacecraft**
Çelik H.
3rd International Symposium on Multidisciplinary Studies and Innovative Technologies, Ankara, Turkey, 11 - 13 October 2019, pp.1-4
- II. **Comparison of Greulich-Pyle and Gilsanz-Ratib Atlases Through An Intelligent Bone Age Assessment System**
ÇELİK H.
International Conference on Artificial Intelligence and Data Processing (IDAP 2018), 28 - 30 September 2018
- III. **On computerized bone age estimation studies**
ÇELİK H.
International Conference on Mathematics and Engineering (ICOME), İstanbul, Turkey, 10 - 12 May 2017, pp.198
- IV. **A motion blur kernel model derived from Euler angles of aerial vehicle**
ÇELİK H., TÜRKMEN İ., OKTAY T.
International Conference on Mathematics and Engineering (ICOME), İstanbul, Turkey, 10 - 12 May 2017, pp.46
- V. **Stress generation in NiTiHfPd alloys**
ACAR E., ÇELİK H.
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.424
- VI. **Mormonlar ile Müslümanlar Arasında Karşılıklı Hoşgörüye Dayanan İlişkilerin Nedenleri**
ÇELİK H., ULU M.
II. Uluslararası Sosyal Bilimler Sempozyumu (ASOS), Antalya, Turkey, 18 - 20 May 2017, pp.533
- VII. **A Motion Blur Kernel Model Serived From Euler Angles of Aerial Vehicle**
ÇELİK H., TÜRKMEN İ., OKTAY T.
International Conference on Mathematics and Engineering (ICOME 2017), İstanbul, Turkey, 10 - 12 May 2017
- VIII. **Exposure time optimization for a moving camera**
Çelik H., Türkmen İ., Oktay T.
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.549
- IX. **İnsansız Bir Hava Aracının Yanal Durum-Uzay Modelinin Ve Uçuş Kontrol Sisteminin Eş Zamanlı Tasarımı**
Çoban S., Oktay T., Çelik H., Ekinçi İ.
6. Ulusal Havacılık Ve Uzay Konferansı, Kocaeli, Turkey, 28 September - 30 October 2016
- X. **Improving Quality of Deblurred Images by Maximizing Autonomous Performance of Fixed-Wing Unmanned Aerial Vehicle**
Oktay T., Çelik H., Türkmen İ.
9th International Conference on Sustainable Energy and Environmental Protection, Kayseri, Turkey, 22 - 26 September 2016
- XI. **Airspeed Computation for Aircrafts with ANFIS Using Flight Parameters**
TÜRKMEN İ., ÇELİK H.
The 2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016, pp.1375-1379
- XII. **Deblurring Images Taken by a Quadrotor Using Artificial Neural Networks**
Çelik H., Türkmen İ., Oktay T.
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016
- XIII. **Reducing motion blur by constrained control of helicopter vibration**
ÇELİK H., OKTAY T., TÜRKMEN İ., UZUN M.
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016
- XIV. **Incorporation of Neural Network to HPMHT for Tracking Multiple Targets**

TÜRKMEN İ., ÇELİK H.

The 19th International Conference ELECTRONICS 2015, 15 - 17 June 2015

XV. **Edge Detection in Aircraft ISAR Image Through The Ant Colony Algorithm**

ÇELİK H., TÜRKMEN İ.

The International Symposium on Sustainable Aviation (ISSA-2015), İstanbul, Turkey, 31 May 0215 - 03 June 2015, pp.106

XVI. **Karınca Koloni Algoritması İle ISAR Görüntülerde Kenar Çıkarma**

ÇELİK H., TÜRKMEN İ.

Ulusal Havacılık Ve Uzay Konferansı: UHUK 2014, Turkey, 8 - 10 September 2014

XVII. **Çocuklarda Radius un Distal Epifiz Kemığının Büyüklüğünden Kemik Yaşının Yapay Sinir Ağlarıyla Tayini**

ÇELİK H., İÇER S., GÜVEN A.

TıpTekno'11, Turkey, 13 - 16 October 2011

Supported Projects

Çelik H., Project Supported by Other Official Institutions, Güvenilir ve yenilikçi aviyonik uçuş yönetim sistemlerinin araştırılması, 2021 - 2022

Çelik H., TUBITAK Project, 6DoF Hava Aracı Modeli İçin Otonom Havada Yakıt İkmali Algoritmasının Geliştirilmesi, 2020 - 2021

Çelik H., TUBITAK Project, YENİ BİR İNSANSIZ HAVA ARACININ TASARIMI, İMALATI VE KONTROLÜ: AQUACOPTER, 2020 - 2021

TÜRKMEN İ., ÇELİK H., OKTAY T., ARIK S., Project Supported by Higher Education Institutions, Aerodinamik Şekil Optimizasyonunda Yapay Zeka Tekniklerinin Kullanılması, 2015 - 2017

Citations

Total Citations (WOS):20

h-index (WOS):2