

Prof. İLKE TÜRKMEN

Personal Information

Office Phone: [+90 352 207 6666](tel:+903522076666) Extension: 41055

Email: titi@erciyes.edu.tr

Web: <https://avesis.erciyes.edu.tr/titi/>

International Researcher IDs

ORCID: 0000-0003-4617-9184

Yoksis Researcher ID: 54369

Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Müh, Turkey 1999 - 2005

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Elektronik Müh, Turkey 1997 - 1999

Undergraduate, Erciyes University, Mühendislik Fakültesi, Elektronik Müh. (Dönem Birincisi), Turkey 1994 - 1997

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, UÇAK BAKIMINDA İNSAN FAKTÖRLERİ KURSU, THY A.O., 2010

Education Management and Planning, EĞİTİCİLERİN EĞİTİMİ KURSU, THY A.O., 2005

Health&Medicine, İLK YARDIM UYGULAMALARI KURSU, TIP FAKÜLTESİ ACİL TIP ANABİLİM DALI, 2003

Dissertations

Doctorate, YAPAY ZEKA TEKNİKLERİNE DAYANAN YÖNTEMLERLE ÇOK SAYIDA HEDEF İZLEME , Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Müh, 2005

Postgraduate, YAPAY SİNİR AĞLARI İLE HEDEF İZLEME, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Müh, 1999

Research Areas

Technical Sciences, Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Evolutionary Computing, Neural Networks

Academic Titles / Tasks

Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Elektrik Elektronik Bölümü, 2018 - Continues

Associate Professor, Erciyes University, Sivil Havacılık Yo, Uçak Elektrik Elektronik, 2012 - 2018

Assistant Professor, Erciyes University, Sivil Havacılık Yo, Uçak Elektrik Elektronik, 2005 - 2012

Lecturer, Erciyes University, Sivil Havacılık Yo, Uçak Elektrik Elektronik, 2000 - 2005

Expert, Erciyes University, Sivil Havacılık Yo, Uçak Elektrik Elektronik, 1997 - 2000

Academic and Administrative Experience

Erciyes Üniversitesi, Havacılık ve Uzay Bilimleri Fakültesi, 2012 - Continues

2012 - Continues

Erciyes Üniversitesi, Sivil Havacılık Yo, 2010 - Continues

Deputy Director of Junior College, Erciyes Üniversitesi, Sivil Havacılık Yo, 2012 - 2014

Erciyes Üniversitesi, Sivil Havacılık Yo, Uçak Elektrik-Elektronik Bölümü, 2005 - 2012

2005 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- 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 (SCI-Expanded)
- 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 (SCI-Expanded)
- III. **An alternative neural airspeed computation method for aircrafts**
TÜRKMEN I.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, no.2, pp.368-378, 2018 (SCI-Expanded)
- IV. **Redesign of Morphing UAV for Simultaneous Improvement of Directional Stability and Maximum Lift/Drag Ratio**
Arik S., Türkmen I., Oktay T.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.18, no.4, pp.57-62, 2018 (SCI-Expanded)
- V. **Neural network based redesign of morphing UAV for simultaneous improvement of roll stability and maximum lift/drag ratio**
Oktay T., Arik S., Türkmen I., Uzun M., Celik H.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, pp.1203-1212, 2018 (SCI-Expanded)
- VI. **A simulation-based method using artificial neural networks for solving the inverse kinematic problem of articulated robots**
Soylak M., Oktay T., Türkmen I.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.231, no.3, pp.470-479, 2017 (SCI-Expanded)
- VII. **The ANN based detector to remove random-valued impulse noise in images**
TÜRKMEN I.
JOURNAL OF VISUAL COMMUNICATION AND IMAGE REPRESENTATION, vol.34, pp.28-36, 2016 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **Removing random-valued impulse noise in images using a neural network detector**
Turkmen I.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, no.3, pp.637-649, 2014 (SCI-Expanded)

- X. **A new method to remove random-valued impulse noise in images**
Turkmen I.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.67, no.9, pp.771-779, 2013 (SCI-Expanded)
- XI. **Efficient impulse noise detection method with ANFIS for accurate image restoration**
Turkmen I.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.65, no.2, pp.132-139, 2011 (SCI-Expanded)
- XII. **Genetic tracker with adaptive neuro-fuzzy inference system for multiple target tracking**
TÜRKMEN I., Guney K.
EXPERT SYSTEMS WITH APPLICATIONS, vol.35, no.4, pp.1657-1667, 2008 (SCI-Expanded)
- XIII. **IMM fuzzy probabilistic data association algorithm for tracking maneuvering target**
Turkmen I.
EXPERT SYSTEMS WITH APPLICATIONS, vol.34, no.2, pp.1243-1249, 2008 (SCI-Expanded)
- XIV. **Computation of association probabilities with the use of adaptive neuro-fuzzy inference system for multi-target tracking**
TÜRKMEN I., Guney K.
ENGINEERING INTELLIGENT SYSTEMS FOR ELECTRICAL ENGINEERING AND COMMUNICATIONS, vol.15, no.4, pp.213-223, 2007 (SCI-Expanded)
- XV. **Cheap joint probabilistic data association with neural network state filter for tracking multiple targets in cluttered environment**
Turkmen I., Guney K.
INTELLIGENT AUTOMATION AND SOFT COMPUTING, vol.13, no.3, pp.305-317, 2007 (SCI-Expanded)
- XVI. **Genetic tracker with neural network for single and multiple target tracking**
Turkmen I., Guney K., Karaboga D.
NEUROCOMPUTING, vol.69, pp.2309-2319, 2006 (SCI-Expanded)
- XVII. **Tabu search tracker with adaptive neuro-fuzzy inference system for multiple target tracking**
Turkmen I., Guney K.
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.65, pp.169-185, 2006 (SCI-Expanded)
- XVIII. **Artificial neural networks for calculating the association probabilities in multi-target tracking**
Turkmen I., Guney K.
IEE PROCEEDINGS-RADAR SONAR AND NAVIGATION, vol.151, no.4, pp.181-188, 2004 (SCI-Expanded)
- XIX. **Tabu search tracker for multiple target tracking**
Turkmen I., Guney K., Karaboga D.
JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS, vol.18, no.12, pp.1573-1589, 2004 (SCI-Expanded)
- XX. **Cheap joint probabilistic data association with adaptive neuro-fuzzy inference system state filter for tracking multiple targets in cluttered environment**
Turkmen I., Guney K.
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.58, no.5, pp.349-357, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **A New Alternative Air Data Computation Method Based on Artificial Neural Networks**
TÜRKMEN İ., ARIK S.
Journal of Aeronautics and Space Technologies, 2017 (Peer-Reviewed Journal)
- II. **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 (Peer-Reviewed Journal)

- III. **İnsansız Küçük Bir Hava Aracının Zanka I Farklı Türbülans Ortamlarında Model Öngörülü Kontrolü ve Gürbüzlük Testi**
Çelik H., Oktay T., Türkmen İ.
Journal of Aeronautics and Space Technologies, vol.9, no.1, pp.31-42, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Literature Review For Applications of Soft Computing on Aeronautics**
Arik S., Oktay T., Türkmen I.
4th International Conference on Engineering and Natural Sciences (ICENS 2018), Kyyiv, Ukraine, 2 - 06 May 2018, pp.1-6
- II. **Optimization and Estimated Pareto Front of the Maximum Lift/Drag Ratio and Roll Stability Coefficient**
Arik S., Oktay T., Türkmen I.
4th International Conference on Engineering and Natural Sciences (ICENS 2018), Kyyiv, Ukraine, 2 - 06 May 2018, pp.1-6
- III. **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
- IV. **A Motion Blur Kernel Model Serived From Euler Angles of Aerial Vehicle**
Çelik H., Türkmen I., Oktay T.
International Conference on Mathematics and Engineering (ICOME 2017), İstanbul, Turkey, 10 - 12 May 2017
- V. **Exposure time optimization for a moving camera**
Çelik H., Türkmen I., Oktay T.
3rd International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, pp.549
- VI. **Improving Quality of Deblurred Images by Maximizing Autonomous Performance of Fixed-Wing Unmanned Aerial Vehicle**
Oktay T., Çelik H., Türkmen I.
9th International Conference on Sustainable Energy and Environmental Protection, Kayseri, Turkey, 22 - 26 September 2016, pp.1-5
- VII. **Airspeed Computation for Aircrafts with ANFIS Using Flight Parameters**
TÜRKMEN I., ÇELİK H.
The 2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Saraybosna, Bosnia And Herzegovina, 24 - 28 May 2016, pp.1375-1379
- VIII. **Deblurring Images Taken by a Quadrotor Using Artificial Neural Networks**
Çelik H., Türkmen I., Oktay T.
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.6-10
- IX. **Reducing motion blur by constrained control of helicopter vibration**
Çelik H., Oktay T., Türkmen I., Uzun M.
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016, pp.11-15
- X. **Incorporation of Neural Network to HPMHT for Tracking Multiple Targets**
TÜRKMEN İ., ÇELİK H.
The 19th International Conference ELECTRONICS 2015, 15 - 17 June 2015
- XI. **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 2015 - 03 June 2015, pp.106

- XII. **Mach Sayısının Yapay Sinir Ağları ile Hesaplanması**
TÜRKMEN İ., ARIK S.
Ulusal Havacılık ve Uzay Konferansı (UHUK), Kayseri, Turkey, 8 - 10 September 2014
- XIII. **Karınca Koloni Algoritması ile ISAR Görüntülerde Kenar Çıkarma**
ÇELİK H., TÜRKMEN İ.
Ulusal Havacılık Ve Uzay Konferansı: UHUK'2014, Kayseri, Turkey, 8 - 10 September 2014
- XIV. **Uçaklardaki Hava Veri Bilgisayarında Basınç İrtifasının Bulanık Mantık Sistemine Dayalı Uyarlanıır Ağ İle Hesaplanması**
TÜRKMEN İ., KORKMAZ Y.
19. Sinyal İşleme ve İletişim Uygulamaları Kurultayı, Turkey, 20 - 22 April 2011
- XV. **The Pressure Altitude Computation using Artificial Neural Network for Air Data Computer**
TÜRKMEN İ., KORKMAZ Y.
10th IEEE International Symposium on Signal Processing and Information Technology, 15 - 18 December 2010
- XVI. **Mikrodalga/RF Devrelerin Lineer Olmayan Davranışlarının Modellenmesinde Kullanılan Yeni Teknikler**
Türkmen İ., Güven A., Sarıkaya N.
Kayseri VII. Havacılık Sempozyumu HaSeM-08, Kayseri, Turkey, 15 - 16 May 2008
- XVII. **Mikrodalga/RF Devrelerin Davranış Modellemesinde Kullanılan Ölçüm ve Modelleme Yöntemleri**
Türkmen İ., Güven A., Sarıkaya N.
Kayseri VII. Havacılık Sempozyumu-HASEM2008, Kayseri, Turkey, 15 - 16 May 2008, pp.306-309

Supported Projects

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

TÜRKMEN İ., YILDIRIM DALKIRAN F., YAPICI A. Ç., SARIKAYA BAŞTÜRK N., ONAY M., EKİCİ M., Project Supported by Higher Education Institutions, HAVA ARAÇLARINDA KULLANILAN VE KULLANILMASI MUHTEMEL RF SİSTEMLERİN EMC TESTLERİNİN GERÇEKLEŞTİRİLMESİ, 2006 - 2008

Metrics

Publication: 40

Citation (WoS): 185

Citation (Scopus): 138

H-Index (WoS): 9

H-Index (Scopus): 7