Asst. Prof. MURAT ONAY

Personal Information

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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2004 - 2011
Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2002 - 2004
Undergraduate, Erciyes University, Mühendislik Fakültesi, Turkey 1996 - 2002

Dissertations

Doctorate, ARILAR ALGORİTMASI, ARMONİ ARAMA ALGORİTMASI VE YAPAY BALIK SÜRÜSÜ ALGORİTMASI İLE LİNEER ANTEN DİZİ SENTEZİ , Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Elektronik Anabilim Dalı, 2011
Postgraduate, NEVUS İMGELERİNİN KLİNİK TANI AMAÇLI SINIFLANDIRILMASI, Erciyes Üniversitesi, Fen Bilimleri Anabilim Dalı, Elektronik Anabilim Dalı, 2004

Research Areas

Technical Sciences, Electrical and Electronics Engineering, Electronic

Academic Titles / Tasks

Assistant Professor, Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Elektrik-Elektronik, 2018 - Continues
Assistant Professor, Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Elektrik-Elektronik, 2012 - 2018

Academic and Administrative Experience

Erciyes University, 2019 - Continues
Erciyes University, 2019 - Continues
Erciyes University, 2018 - Continues
Erciyes University, 2018 - Continues
Erciyes University, 2015 - 2019
Erciyes University, 2015 - 2019
Erciyes University, 2016 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

Published Journal Articles Indexed by SCI, SSCI, and AHCI

I. **Simultaneous small UAV and autopilot system design**
Oktay T., Konar M., Onay M., Aydın M., Mohamed M. A.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.88, pp.818-834, 2016 (SCI-Expanded)

II. **Bees algorithm for interference suppression of linear antenna arrays by controlling the positions of selected elements**
Guney K., ONAY M.
JOURNAL OF COMMUNICATIONS TECHNOLOGY AND ELECTRONICS, vol.58, no.12, pp.1147-1156, 2013 (SCI-Expanded)

III. **Optimal synthesis of linear antenna arrays using a harmony search algorithm**
GUNEY K., ONAY M.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.12, pp.15455-15462, 2011 (SCI-Expanded)

IV. **SYNTHESIS OF THINNED LINEAR ANTENNA ARRAYS USING BEES ALGORITHM**
Guney K., ONAY M.
MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, vol.53, no.4, pp.795-799, 2011 (SCI-Expanded)

V. **Bees algorithm for interference suppression of linear antenna arrays by controlling the phase-only and both the amplitude and phase**
GUNEY K., ONAY M.
EXPERT SYSTEMS WITH APPLICATIONS, vol.37, no.4, pp.3129-3135, 2010 (SCI-Expanded)

VI. **Bees algorithm for design of dual-beam linear antenna arrays with digital attenuators and digital phase shifters**
GUNEY K., ONAY M.
INTERNATIONAL JOURNAL OF RF AND MICROWAVE COMPUTER-AIDED ENGINEERING, vol.18, no.4, pp.337-347, 2008 (SCI-Expanded)

VII. **Bees algorithm for null synthesizing of linear antenna arrays by controlling only the element positions**
Guney K., Onay M.
NEURAL NETWORK WORLD, vol.17, no.2, pp.153-169, 2007 (SCI-Expanded)

VIII. **Amplitude-only pattern nulling of linear antenna arrays with the use of bees algorithm**
GUNEY K., Onay M.
PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER, vol.70, pp.21-36, 2007 (SCI-Expanded)

Articles Published in Other Journals

I. **Karayolları Denetimi İçin Kullanılabilecek Başlangıç Seviyesinde İnsansız Hava Aracı (İHA) Tasarım ve İmalatı**
ONAY M., özkoca m.
Mühendis ve Makina Güncel, 2017 (Peer-Reviewed Journal)

II. **Blur Kernel Estimation by Using Bees Algorithm**
ONAY M.
International Journal of System Modeling and Simulation, vol.1, no.2, pp.8-11, 2016 (Peer-Reviewed Journal)

III. **Increasing Performance of Autopilot Guided Small Unmanned Helicopter**
Oktay T., Konar M., Soylak M., Şal F., Onay M., Kızılkaya O.
International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, vol.10, no.1, pp.133-139, 2016 (Peer-Reviewed Journal)

IV. **Autonomous Flight Performance Improvement of Load Carrying Unmanned Aerial Vehicles by Active Morphing**
Oktay T., Konar M., Mohamed M. A., Aydın M., Şal F., Onay M., Soylak M.
International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, vol.10, pp.123-132, 2016 (Peer-Reviewed Journal)

V. **Increasing Performance of Autopilot Guided Small Unmanned Helicopter**

Oktay T., Konar M., Soylak M., Şal F., Onay M., Kızılkaya O.
International Journal of Mechanical Aerospace Industrial Mechatronic and Manufacturing Engineering, vol.10, no.1, pp.133-139, 2016 (Peer-Reviewed Journal)

Books & Book Chapters

I. **İŞ SAĞLIĞI VE GÜVENLİĞİ HİZMETLERİNİN DEĞERLENDİRİLMESİ**
ÖZDEMİR H., BENLİ H., GÜNDÜZ E., PARLAK BİÇER Z. Ö., ONAY M., BORLU A.
in: AKADEMİSYENLER, PROFESYONELLER VE ÖĞRENCİLER İÇİN İŞ SAĞLIĞI VE GÜVENLİĞİ, DOÇ.DR. ZÜBEYDE ÖZLEM PARLAK BİÇER, Editor, NOBEL, pp.273-292, 2019

II. **BÖLÜM 2, KİŞİSEL KORUYUCU DONANIM**
ONAY M.
in: Akademisyenler, Profesyoneller ve Öğrenciler İçin İş Sağlığı ve Güvenliği, Z. ÖZLEM PARLAK BİÇER, Editor, NOBEL, Ankara, pp.2, 2019

Refereed Congress / Symposium Publications in Proceedings

I. **MOBILE GROUND CONTROL STATION DESIGN FOR ANDROID TABLETS AND PHONES**
ONAY M., sönmez F. O., özçelik z., Batgi S., çanga ö., cebeci n.
MAS INTERNATIONAL CONFERENCE ON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, KIEV, Ukraine, 12 - 14 July 2019, pp.108-120

II. **A NOVEL, FAST AND IMPROVED FOX HUNTING OPTIMIZATION ALGORITHM (FHA) AND TRAVELLING SALESMAN PROBLEM APPLICATION**
ONAY M., sönmez F. O., özçelik z., Batgi S., çanga ö., cebeci n.
MAS INTERNATIONAL CONFERENCE ON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, KIEV, Ukraine, 12 - 14 July 2019, pp.94

III. **BÖLGESEL GÜVENLİK AMAÇLI İNSANSIZ HAVA ARACI KULLANIMI USE OF UNMANNED AIRCRAFT FOR REGIONAL SECURITY PURPOSES**
ONAY M., sönmez F. O., özçelik z., Batgi S., çanga ö., cebeci n.
MAS INTERNATIONAL CONFERENCE ON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, KIEV, Ukraine, 12 - 14 July 2019, pp.97-107

IV. **MATHEMATICAL MODELLING AND CONTROL SYSTEM EXAMINING ON DIFFERENT TYPE OF UNMANNED AERIAL VEHICLES FARKLI TİP İNSANSIZ HAVA ARAÇLARINDA MATEMEATİKSEL MODEL VE KONTROL SİSTEMLERİNİN İNCELENMESİ**
ONAY M., sönmez F. O., özçelik z., Batgi S., çanga ö., cebeci n.
MAS INTERNATIONAL CONFERENCE ON MATHEMATICS-ENGINEERING-NATURALMEDICAL SCIENCES-V, KIEV, Ukraine, 12 - 14 July 2019, pp.94-95

V. **USE OF A VERTICAL TAKE-OFF AND LANDING (VTOL) UNMANNED AERIAL VEHICLE (UAV) IN THE CONTROL OF HIGHWAYS**
ONAY M., özkoca m., Çıklaiblikçi İ. K., özçelik z., sönmez F. O., çanga ö.
4thInternational Conference on Engineering and Natural Science, kiev, Ukraine, 2 - 06 May 2018, pp.915-925

VI. **A NOVEL OPTIMIZATION ALGORITHM FOX HUNTING ALGORITHM (FHA) AND ANTENNA ARRAY PATTERN SYNTHESIS APLICATION**
ONAY M.
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCE, KİEV, Ukraine, 2 - 06 May 2018, pp.908-914

VII. **Karayolları Denetimi için Kullanılabilecek Başlangıç Seviyesinde İnsansız Hava Aracı (IHA) Tasarım ve İmalatı**
ONAY M., özkoca m.

IX. Ulusal Uçak, Havacılık ve Uzay Mühendisliği Kurultayı, Ankara, Turkey, 5 May - 06 June 2017

VIII. **Increasing Autonomous Performance of Unmanned Aerial Vehicle and Decreasing Motion Blur Effect on Aerial Images**
ONAY M., Çıklaiblikçi İ. K., özçelik z., çanga ö., sönmez F. O.
3th International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, vol.1, pp.944-949

IX. **A Novel, Fast and Improved Fox Hunting Optimization Algorithm (FHA) and Blur Kernel Estimation Application**
ONAY M.
3th International Conference on Engineering and Natural Sciences (ICENS 2017), Budapest, Hungary, 3 - 07 May 2017, vol.1, pp.938-943

X. **Blur Kernel Estimation by Using Bees Algorithm**
ONAY M.
6th International Conference on Science, Technology, Engineering and Management 2016 (ICSTEM 2016), Dubai, United Arab Emirates, 1 - 02 September 2016, pp.8-11

XI. **A New and Fast Optimization Algorithm: Fox Hunting Algorithm (FHA)**
ONAY M.
2016 International Conference on Applied Mathematics, Simulation and Modelling(AMSM2016), Pekin, China, 28 - 29 May 2016, pp.153-156

XII. **Increasing Performance of Autopilot Guided Small Unmanned Helicopter**
Oktay T., Konar M., Soylak M., Şal F., Onay M., Kızılkaya O.
18th International Conference on Aerospace, Mechanical, Automotive and Materials Engineering (ICAMAME 2016), Dubai, United Arab Emirates, 28 - 29 January 2016, pp.1-10

XIII. **Autonomous Flight Performance Improvement of Load carrying Unmanned Aerial Vehicles by Active Morphing**
OKTAY T., KONAR M., mohamed m. a., AYDIN M., ŞAL F., ONAY M., SOYLAK M.
ICUAST 2016 : 18th International Conference on Unmanned Aircraft Systems and Technology, Zürich, Switzerland, 12 - 13 January 2016

XIV. **Autonomous Flight Performance Improvement of Load carrying Unmanned Aerial Vehicles by Active Morphing**
OKTAY T., KONAR M., Mohamed Abdallah Mohamed M. A. M., AYDIN M., ŞAL F., ONAY M., SOYLAK M.
18th International Conference on Unmanned Aircraft Systems and Technology, Zürich, Switzerland, 12 - 13 January 2016

XV. **Integrated Autopilot Tunning and Unmanned Aerial Vehicle (UAV) Design**
Oktay T., Konar M., Onay M., Abdallah Mohamed M.
6th European Conference For Aeronautics and Space Science, Krakow, Poland, 29 June - 03 July 2015, pp.1-5

Supported Projects

Oktay T., Konar M., Onay M., EU Supported Other Project, (Erasmus + KA 203) Developing Novel UAV Education Set and Training Curriculum In order to Catch State of The Art Technology, 2018 - 2020

ONAY M., ÖZKOCA M., Project Supported by Higher Education Institutions, İNSANSIZ HAVA ARACI (İHA) İLE KARAYOLLARI DENETİMİ, 2014 - 2019

ONAY M., TUBITAK Project, BİR MÜDAHALESİZ ELDİVENLE SÜRÜLEN İNSANSIZ HAVA ARACININ (MESİHA) YER KONTROL BİRİMİ TASARIMININ GELİŞTİRİLMESİ, 2015 - 2016

ONAY M., TUBITAK Project, BİR MÜDAHALESİZ ELDİVENLE SÜRÜLEN İNSANSIZ HAVA ARACININ (MESİHA) ELDİVEN TASARIMININ GELİŞTİRİLMESİ, 2015 - 2016

OKTAY T., ONAY M., KONAR M., ŞAL F., Project Supported by Higher Education Institutions, İnsansız küçük bir helikopterin modellenmesi otomatik kontrolü ve otopilotlu gerçek zamanlı uygulaması, 2015 - 2016

GÜVEN A., YILDIRIM DALKIRAN F., YAPICI A. Ç., EKİCİ M., ONAY M., SARIKAYA BAŞTÜRK N., Project Supported by Higher

Education Institutions, HAVA ARAÇLARINDA KULLANILANANTENLERİN, ANTEN PATERNİNİN DOĞRULANMASI., 2006 - 2008
YAPICI H., ONAY M., EKİCİ M., YAPICI A. Ç., YILDIRIM DALKIRAN F., SARIKAYA BAŞTÜRK N., Project Supported by Higher Education Institutions, RADOMLARIN EM TESTLERİNİN GERÇEKLEŞTİRİLMESİ., 2006 - 2008
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
ERLER M., ONAY M., YILDIRIM DALKIRAN F., SARIKAYA BAŞTÜRK N., EKİCİ M., YAPICI A. Ç., Project Supported by Higher Education Institutions, HAVA ARAÇLARINDA KULLANILAN RF SİSTEMLERİN EMI TESTLERİNİN GERÇEKLEŞTİRİLMESİ., 2006 - 2008
AKDAĞLI A., GÜNEY K., ONAY M., Project Supported by Higher Education Institutions, YAPAY ZEKA TEKNİKLERİ VE EŞ ZAMANLI İMGE İŞLEME PROTOKOLLERİ İLE KONTROL EDİLEN AKILLI ROBOT TASARIMI VE GERÇEKLEŞTİRİLMESİ, 2004 - 2007

Metrics

Publication: 30
Citation (WoS): 182
Citation (Scopus): 26
H-Index (WoS): 7
H-Index (Scopus): 1

Non Academic Experience

ERCİYES ÜNİVERSİTESİ SİVİL HAVACILIK YÜKSEKOKULU
ERCİYES ÜNİVERSİTESİ SİVİL HAVACILIK YÜKSEKOKULU