

Asst. Prof. ERTUĞRUL ÇETİNSOY

Personal Information

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International Researcher IDs

ScholarID: VWCehL4AAAAJ

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Publons / Web Of Science ResearcherID: ABC-2455-2020

ScopusID: 36809024400

Yoksis Researcher ID: 31408

Education Information

Doctorate, Sabanci University, Institute Of Science, Turkey 2006 - 2010

Postgraduate, Sabanci University, Institute Of Science, Turkey 2004 - 2006

Undergraduate, Sabanci University, Faculty Of Engineering And Natural Sciences, Department Of Natural Sciences And Engineering Program, Turkey 1999 - 2004

Foreign Languages

English, C1 Advanced

German, B1 Intermediate

Certificates, Courses and Trainings

Entrepreneurship, KOSGEB Girişimcilik Eğitimi, KOSGEB, 2013

Dissertations

Doctorate, Design, construction and flight control of a quad tilt-wing unmanned aerial vehicle, Sabanci University, Institute Of Science, Mechatronics Engineering, 2010

Postgraduate, Analysis of hydrodynamic lift for gas turbine oil brush seals, Sabanci University, Institute Of Science, 2006

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Technology, Mechatronic Engineering, 2020 - Continues

Assistant Professor, Istanbul Sehir University, Faculty Of Engineering And Natural Sciences, Department Of Mechanical

Engineering, 2018 - 2020

Assistant Professor, Istanbul Commerce University, Faculty Of Engineering And Design, Department Of Mechatronics Engineering, 2011 - 2018

Academic and Administrative Experience

Head of Department, Istanbul Commerce University, Faculty Of Engineering And Design, Department Of Mechatronics Engineering, 2014 - 2017

Courses

Postgraduate

Flight Dynamics and Control, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Nonlinear Control, Postgraduate, 2023 - 2024

Undergraduate

Automatic Control Systems, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Embedded Systems and Applications, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Linear Algebra, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021

Mathematics I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Mathematics 2, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Microcontrollers, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Graduation Project, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Mechatronics in Printing Technologies, Undergraduate, 2020 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of thermal conductivity, sound absorption, and mechanical properties of Alcea Rosea L. fiber-reinforced epoxy composites**
EYÜPOĞLU Ş., ÇETİNSOY E., Eyupoglu C., MERDAN N.
Biomass Conversion and Biorefinery, vol.15, no.1, pp.1317-1325, 2025 (SCI-Expanded)
- II. **Aerodynamic Design and Characterization of a Quad Tilt-Wing UAV via Wind Tunnel Tests**
Cetinsoy E., Hancer C., Oner K. T., Sirimoglu E., Unel M.
JOURNAL OF AEROSPACE ENGINEERING, vol.25, no.4, pp.574-587, 2012 (SCI-Expanded)
- III. **Design and construction of a novel quad tilt-wing UAV**
Cetinsoy E., Dikyar S., Hancer C., Oner K. T., Sirimoglu E., Unel M., Aksit M. F.
MECHATRONICS, vol.22, no.6, pp.723-745, 2012 (SCI-Expanded)
- IV. **Mathematical modeling and vertical flight control of a tilt-wing UAV**
Oner K. T., Cetinsoy E., Sirimoglu E., Hancer C., Unel M., Aksit M. F., Gulez K., Kandemir I.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.20, no.1, pp.149-157, 2012 (SCI-Expanded)
- V. **Design and development of a tilt-wing UAV**
Cetinsoy E., Sirimoglu E., Oner K. T., Hancer C., Unel M., Aksit M. F., Kandemir I., Gulez K.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.19, no.5, pp.733-741, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **LQR and SMC stabilization of a new unmanned aerial vehicle**

Papers Published in Refereed Scientific Meetings

- I. **İHA'lar için Yeni Bir Açılal İvme Kestirim Yöntemi Geliştirilmesi ve Kullanımı**
Yıldırım M. T., Çetinsoy E.
12. Uluslararası Mühendislik Mimarlık ve Tasarım Kongresi, 23 - 25 December 2023, pp.1-2
- II. **Convertible Wheel/Track Design for Robots**
Bozkurt T., Çetinsoy E.
Global Conference on Engineering Research, İstanbul, Turkey, 13 - 16 September 2023, pp.1-2
- III. **QUADROTOR CONTROL USING DEEP NEURAL NETWORKS**
ChickZaouali M., ÇETİNSOY E.
5. Uluslararası Mühendislik Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, 25 February 2023
- IV. **Kablosuz Doğalgaz Borusu Muayene Robotu Tasarımı**
ÇETİNSOY E., Esgin H.
TOK2018, Turkey, 12 - 14 September 2018
- V. **Design of an Ex-proof Untethered In-pipe Inspection Robot**
ÇETİNSOY E., Esgin H.
AQTR2018, 24 - 26 May 2018
- VI. **Design and Control of a Gas-Electric Hybrid Quad Tilt-Rotor UAV with Morphing Wing**
ÇETİNSOY E.
International Conference on Unmanned Aerial Systems ICUAS2015, Denver, United States Of America, 9 - 12 June 2015
- VII. **Design and Modeling of a Gas-Electric Hybrid Quad Tilt-Rotor UAV with Morphing Wing**
Cetinsoy E.
11th IEEE International Conference on Mechatronics and Automation (ICMA), Tianjin, China, 3 - 06 August 2014, pp.1193-1198
- VIII. **Design and initial flight tests of a holonomic quadrotor UAV with sub-rotor control surfaces**
ÇETİNSOY E.
20th Annual International Conference on Mechatronics and Machine Vision in Practice, M2VIP 2013, Ankara, Turkey, 20 September 2013, pp.63-69
- IX. **Hareketli Kanatçıklarla Yanal Hareket Edebilen Dört Rotor Helikopter İHA Tasarımı ve Uçuş Testleri**
Çetinsoy E.
TOK2013, Malatya, Turkey, 26 - 28 September 2013, pp.1-7
- X. **Design and Flight Tests of a Holonomic Quadrotor UAV with Sub-Rotor Control Surfaces**
Cetinsoy E.
10th IEEE International Conference on Mechatronics and Automation (ICMA), Takamatsu, Japan, 4 - 07 August 2013, pp.1197-1202
- XI. **Design and simulation of a holonomic quadrotor UAV with sub-rotor control surfaces**
ÇETİNSOY E.
2012 IEEE International Conference on Robotics and Biomimetics, ROBIO 2012, Guangzhou, China, 11 - 14 December 2012, pp.1164-1169
- XII. **Hareketli Kanatçıklarla Yanal Hareket Edebilen Dört Rotor Helikopter İHA Tasarım ve Benzetimi**
Çetinsoy E.
TOK2012, Niğde, Turkey, 11 - 13 October 2012, pp.1-7
- XIII. **Robust Hovering Control of a Quad Tilt-Wing UAV**
Hancer C., Oner K. T., Sirimoglu E., Cetinsoy E., Unel M.
36th Annual Conference of the IEEE Industrial-Electronics-Society (IECON)/4th IEEE International Conference on E-Learning in Industrial Electronics/IES Industry Forum, Arizona, United States Of America, 7 - 10 November 2010

- XIV. **Robust Position Control of a Tilt-Wing Quadrotor**
Hancer C., Oner K. T., Sirimoglu E., Cetinsoy E., Unel M.
49th IEEE Conference on Decision and Control (CDC), Georgia, United States Of America, 15 - 17 December 2010, pp.4908-4913
- XV. **Yeni Bir İnsansız Hava Aracının SUAVİ Prototip Üretimi ve Algılayıcı Eyleyici Entegrasyonu**
Çetinsoy E.
TOK2009, İstanbul, Turkey, 13 - 15 October 2009, pp.1-7
- XVI. **Döner Kanat Mekanizmasına Sahip Yeni Bir İnsansız Hava Aracının SUAVİ Modellenmesi ve Kontrolü**
Çetinsoy E.
TOK2009, İstanbul, Turkey, 13 - 15 October 2009, pp.1-7
- XVII. **İnsansız Hava Araçları için Test Düzeneği Tasarımı ve Üretimi**
Çetinsoy E.
TOK2008, İstanbul, Turkey, 13 - 15 November 2008, pp.1-7
- XVIII. **Yeni Bir İnsansız Hava Aracının SUAVİ Dikey Uçuş Kipi İçin Dinamik Modeli ve Yörünge Kontrolü**
Çetinsoy E.
TOK2008, İstanbul, Turkey, 13 - 15 November 2008, pp.1-7
- XIX. **Yeni Bir İnsansız Hava Aracının SUAVİ Mekanik ve Aerodinamik Tasarımı**
Çetinsoy E.
TOK2008, İstanbul, Turkey, 13 - 15 November 2008, pp.1-7
- XX. **A Study of Brush Seal Oil Lift Through Long Bearing Analysis**
Çetinsoy E.
IJTC2006, Texas, United States Of America, 23 - 25 October 2006, pp.1-7

Metrics

Publication: 29

Citation (WoS): 231

Citation (Scopus): 400

H-Index (WoS): 6

H-Index (Scopus): 7

Non Academic Experience

TUBİTAK, Tubitak, Bilgem, R&D Consultant

Company, Penta Electronics and Telecommunication Plastic Co., R&D Center, Technical consultant

Penta Elektronik Telekomünikasyon Plastik San. ve Tic. A. Ş., Danışman

Company, TAI - Turkish Aviation Industry, Teknopark İstanbul R&D Center, Technical consultant

TAI - Türk Havacılık ve Uzay Sanayii A.Ş., Danışman

Company, TMekatronik Müh. San. ve Tic. Ltd. Şti., Founder-R&D Engineer

Company, SDM Research Engineering, Project engineer

Company, Digitech Ltd., Design engineer