

## Asst. Prof. ERTUĞRUL ÇETİNSOY

### Personal Information

**Email:** ertugrul.cetinsoy@marmara.edu.tr

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### International Researcher IDs

ScholarID: VWCehL4AAAAJ

ORCID: 0000-0001-5398-7409

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

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

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

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

Nonlinear Control, Postgraduate, 2023 - 2024

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, 2023 (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**  
Oner K. T., ÇETİNSOY E., Sirimoglu E., Hancer C., Ayken T., Unel M.  
World Academy of Science, Engineering and Technology, vol.58, pp.373-378, 2009 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- 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

TUBITAK, Tubitak, Bilgem

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

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

Company, TAI - Turkish Aviation Industry, Teknopark Istanbul R&D Center

TAI - Türk Havaçılık ve Uzay Sanayii A.Ş.

Company, TMekatronik Müh. San. ve Tic. Ltd. Şti.

Company, SDM Research Engineering

Company, Digitech Ltd.