



MURAT TAŞTAN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: T-3259-2019

ScopusID: 6504444915

Yoksis Researcher ID: 24317



Learning Knowledge

Doctorate
2011 - 2018

Erciyes University, Fen Bilimleri Enstitüsü, Makina A.B.D., Turkey

Postgraduate
2008 - 2011

Erciyes University, Fen Bilimleri Enstitüsü, Sivil Havacılık, Turkey

Undergraduate
2003 - 2008

Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor, Turkey

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, İÇTEN YANMALI BİR MOTORDA HİDROJENLE ZENGİNLEŞTİRİLMİŞ METANOL-BENZİN KARIŞIMLARININ PERFORMANS VE EMİSYONA ETKİSİNİN DENEYSEL İNCELENMESİ, Erciyes Üniversitesi, Makine Mühendisliği, Makine Mühendisliği, 2018

Postgraduate, EKSENEL KOMPRESÖRÜN ÜÇ BOYUTLU SAYISAL İNCELENMESİ, Erciyes Üniversitesi, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor, 2011

Academic Titles / Tasks

Assistant Professor

2018 - Continues

Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı

Lecturer

2017 - 2018

Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı

Research Assistant

2011 - 2017

Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor

Supported Projects

1. TAŞTAN M., DEĞER E., MUTLU K., Project Supported by Higher Education Institutions, N2 Seyreltmesinin Propan Alevinde Yanma Kararsızlıkları ve Emisyonları Üzerindeki Etkisi, 2023 - Continues
2. ALABAŞ B., TAŞTAN M., MUTLU K., Project Supported by Higher Education Institutions, Bir Gaz Türbin Yanma Odasında Alternatif Yakıt ilavesinin Jet Yakıtının Yanma Karakteristiği ve Kirletici Emisyon Değerlerine Olan Etkisinin Deneysel İncelenmesi, 2022 - Continues
3. Taştan M., Yılmaz H., Çetintaş S., Project Supported by Higher Education Institutions, Plazma Destekli Yanmanın Deneysel İncelenmesi, 2023 - 2024
4. TAŞTAN M., MUTLU K., Project Supported by Higher Education Institutions, Oksijenle Zenginleştirilmiş LPG Yakıtının Yanma Kararsızlığının İncelenmesi, 2020 - 2021
5. YILMAZ İ., TARHAN C., TAŞTAN M., ÇAM Ö., Project Supported by Higher Education Institutions, RÜZGÂR TÜRBİN KANAT PROFİLLERİNİN SAYISAL VE DENEYSEL İNCELENMESİ, 2016 - 2018
6. YILMAZ İ., TAŞTAN M., Project Supported by Higher Education Institutions, İÇTEN YANMALI BİR MOTORDA HİDROJENLE ZENGİNLEŞTİRİLMİŞ METANOL-BENZİN KARIŞIMLARININ PERFORMANS VE EMİSYONA ETKİSİNİN DENEYSEL İNCELENMESİ, 2014 - 2018
7. KARCI A., TARHAN C., TAŞTAN M., ÇAM Ö., YILMAZ İ., Project Supported by Higher Education Institutions, Farklı Kanat Profillerinin Aerodinamik Özelliklerinin Deneysel İncelenmesi, 2013 - 2014
8. YILMAZ İ., TAŞTAN M., TARHAN C., TANGÖZ S., Project Supported by Higher Education Institutions, GAZ TÜRBİN MOTOR YANMA ODASININ PERFORMANS DEĞERLERİNİN BELİRLENMESİ ÇİN TEST SİSTEMİNİN OLUSTURULMASI, 2009 - 2012

Awards

1. Taştan M., TÜBİTAK Yayın Teşvik Ödülü, Tübitak, January 2023
2. Taştan M., TÜBİTAK Yayın teşvik, Tübitak, January 2022
3. Taştan M., TÜBİTAK Yayın teşvik, Tübitak, January 2021
4. Taştan M., Yılmaz İ., En iyi Bildiri Ödülü, Osmaniye Korkut Ata Üniversitesi, January 2017

Scholarships

TÜBİTAK YURT İÇİ DOKTORA BURSUSU, TUBİTAK, 2012 - 2018

Jury Memberships

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2021

Competition, TEKNOFEST 2020, Erciyes Üniversitesi, June, 2020

Post Graduate, Post Graduate, Erciyes Üniversitesi, June, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, February, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, January, 2020

Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, January, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- 1. Effect of oxygen enrichment of Biogas-Hydrogen mixtures in a premixed combustor on the combustion instability and emissions**
ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ İ.
Fuel, vol.340, 2023 (SCI-Expanded)
- 2. Investigation of combustion instability of propane fuel enriched with oxygen under acoustic enforcement**
MUTLU K., TAŞTAN M.
PETROLEUM SCIENCE AND TECHNOLOGY, vol.42, no.1, pp.37-55, 2023 (SCI-Expanded)
- 3. Examination of combustion characteristics of oxygen enriched synthetic gases mixtures at various acoustic frequencies**
Alabaş B., Tunç G., Taştan M., Yılmaz İ.
International Journal of Hydrogen Energy, vol.47, no.24, pp.12365-12376, 2022 (SCI-Expanded)
- 4. Experimental investigation of the flame characteristics of a fuel mixture with high hydrogen content enriched with oxygen under the externally acoustic enforcement conditions**
Yılmaz İ., Tunç G., Taştan M., Alabaş B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.24, pp.12432-12442, 2022 (SCI-Expanded)
- 5. Experimental investigation of the emission behaviour and flame stability of the oxygen and hydrogen enriched methane under acoustic enforcement**
ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ İ.
FUEL, vol.290, 2021 (SCI-Expanded)
- 6. Effect of oxygen enrichment on the flame stability and emissions during biogas combustion: An experimental study**
Yılmaz İ., Alabaş B., Taştan M., Tunç G.
FUEL, vol.280, 2020 (SCI-Expanded)
- 7. Experimental investigation of the oxygen enrichment in synthetic gases flames**
Alabaş B., Tunç G., Taştan M., Yılmaz İ.
FUEL, vol.270, 2020 (SCI-Expanded)
- 8. Investigation of hydrogen addition to methanol-gasoline blends in an SI engine**
Yılmaz İ., Taştan M.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.44, pp.20252-20261, 2018 (SCI-Expanded)
- 9. Effect of turbulence and radiation models on combustion characteristics in propane-hydrogen diffusion flames**
Yılmaz I., Taştan M., Ilbas M., Tarhan C.
ENERGY CONVERSION AND MANAGEMENT, vol.72, pp.179-186, 2013 (SCI-Expanded)
- 10. Investigation of hydrogen usage in aviation industry**
Yılmaz I., Ilbas M., Taştan M., Tarhan C.

Articles Published in Other Journals

1. **Investigation of propane combustion at different equivalent ratios in a premixed model burner**
TAŞTAN M., MIZRAK K. C.
International journal of energy studies (Online), vol.8, no.4, pp.731-746, 2023 (Peer-Reviewed Journal)
2. **Examination of combustion behaviors and emissions of hydrogen enriched propane/methane fuel under external acoustic application**
Taştan M., Mutlu K., Çetintaş S.
International journal of energy studies (Online), vol.8, no.3, pp.371-384, 2023 (Peer-Reviewed Journal)
3. **Experimental Investigation of Acoustic Forcing on the Combustion Effect of Propane - Methane Mixtures**
Er K. E., Taştan M.
Avrupa Bilim ve Teknoloji Dergisi, no.51, pp.282-293, 2023 (Peer-Reviewed Journal)
4. **Investigation Of Combustion Characteristics Of Propane Gas At Swirl Number Variations In A Premixed Model Combustor**
Sıpçık C., Taştan M.
Fırat Üniversitesi Mühendislik Bilimleri Dergisi, vol.35, no.2, pp.483-493, 2023 (Peer-Reviewed Journal)
5. **Experimental Investigation of Different Shale Gases in a Premixed Combustion Chamber**
ÇETİNTAŞ S., TAŞTAN M.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.15, pp.106-124, 2022 (Peer-Reviewed Journal)
6. **Experimental Investigation of Aerodynamic Performance of Different Wind Turbine Airfoils**
Yılmaz İ., Cam O., Taştan M., Karcı A.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.19, no.4, pp.577-584, 2016 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

1. **Farklı Kaya Gazları Karışımlarında Bileşenlerin ve Girdap Üreteçlerinin Alev Yapısına Etkisi**
ÇETİNTAŞ S., TAŞTAN M.
Aviation Technologies and Applications Conference - 2023 ATAConf'23, İzmir, Turkey, 20 October 2023, vol.1, pp.106-108
2. **FARKLI SWİRL DEĞERLERİNDE MODEL BİR YAKICIDA PROPAN YANMASININ SAYISAL ANALİZİ**
TAŞTAN M.
9th INTERNATIONAL ERCIYES CONFERENCE ON SCIENTIFIC RESEARCH, Ankara, Turkey, 17 - 18 July 2023
3. **Experimental investigation of hydrogen enriched propane in terms of emission values and flue gas temperature**
BOZTOPRAK O., TAŞTAN M.
5th International Hydrogen Technologies Congress, Niğde, Turkey, 26 - 29 May 2021, no.1, pp.164-166
4. **Effect of Acoustic Enforcement on The Instability of Propane Flame**
MUTLU K., TAŞTAN M.
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, pp.191-196
5. **Effect of Oxygen Enrichment on Flame Instability for A High Hydrogen Content Fuel Mixture**
TUNÇ G., TAŞTAN M., YILMAZ İ., ALABAŞ B.
8th International Conference on Renewable Fuels, Combustion and Fire (FCE'21), Ankara, Turkey, 5 - 07 March 2021, vol.1, pp.212-216
6. **The Effect of Oxygen Enrichment on Combustion Instabilities for Synthetic Gases Fuels with Different H₂/CO Ratios**

- Alabaş B., Tunç G., Taştan M., Yılmaz İ.
15th International Combustion Symposium (INCOS 2020), Kayseri, Turkey, 17 - 19 September 2020, pp.313-319
7. **Experimental Investigation of the Effect of Swirl Number on the Burning of Synthetic Gases in a Burner**
ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ İ.
VII. Mühendislikte Yakıtlar, Yanma ve Yangın Konferansı (7th International Conference on Renewable Fuels Combustion and Fire – FCE2019), 10 - 12 March 2019
8. **Numerical and Experimental Investigations Of E387 And SD7032 Wind Turbine Airfoils For 3 Different Reynolds Number Conditions**
Tarhan C., Taştan M., Yılmaz İ.
International Eurasian Conference On Science, Engineering And Technology, Ankara, Turkey, 22 - 23 November 2018
9. **Laboratuvar Ölçekli Bir Yakıcıda Metan Hidrojen Karışımlarının Deneysel İncelenmesi**
ALABAŞ B., TUNÇ G., TAŞTAN M., YILMAZ İ.
INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY, Ankara, Turkey, 22 - 23 November 2018, pp.2541-2549
10. **Hidrojen- Metanol- Benzin Karışımlarının Deneysel İncelenmesi**
TAŞTAN M., YILMAZ İ.
14th International Conference of Combustion, Karabük, Turkey, 25 - 27 April 2018, vol.1, pp.1-9
11. **İÇTEN YANMALI BİR MOTORDA HİDROJENLE ZENGİNLEŞTİRİLMİŞ METANOL- BENZİN KARIŞIMLARININ PERFORMANS VE EMİSYONA ETKİSİ**
TAŞTAN M., YILMAZ İ.
International Advanced Researches and Engineering Congress, Osmaniye, Turkey, 16 - 18 November 2017, pp.1-6
12. **Farklı Kompozisyonlardaki Sentetik Gazların Yanma Performanslarının İncelenmesi**
YILMAZ H., YILMAZ İ., ÇAM Ö., TAŞTAN M.
VI. Ulusal Havacılık ve Uzay Konferansı, KOCAELİ, TÜRKİYE, 28-30 Eylül 2016, s. Kocaeli, Turkey, 28 - 30 September 2016, pp.1240-1251
13. **BOUNDARY LAYER FLOW SEPARATION CONTROL OF TWO DIMENSIONAL NACA 2415 AIRFOIL**
YILMAZ İ., ÇAM Ö., TAŞTAN M.
8. ANKARA INTERNATIONAL AEROSPACE CONFERENCE, 10 - 12 September 2015
14. **Effect of turbulence and radiation models on combustion characteristics in propane-hydrogen diffusion flames**
Yılmaz İ., Taştan M., İlbaş M., Tarhan C.
The Third International Conference on Nuclear and Renewable Energy Resources, İstanbul, Turkey, 20 - 23 May 2012, pp.1-7
15. **3-D NUMERICAL INVESTIGATION OF AXIAL COMPRESSOR**
YILMAZ İ., TAŞTAN M.
III. International Conference on Nuclear and Renewable Energy Resources, Turkey, 1 - 04 May 2012, pp.166
16. **Biyokütlenin Havacılıkta Kullanımı**
YILMAZ İ., TAŞTAN M., TARHAN C.
VI. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Kayseri, Turkey, 1 - 04 October 2011, pp.197-203
17. **Investigation of hydrogen usage in aviation industry**
Yılmaz İ., İlbaş M., Taştan M., Tarhan C.
10th International Conference in Sustainable Energy Technologies, İstanbul, Turkey, 4 - 07 September 2011, pp.1-7

Academic and Administrative Experience

2023 - Continues Vice Dean

Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi

2022 - 2023 Vice Dean

Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi

2020 - 2022		Erciyes University
2020 - 2022	Deputy Head of Department	Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde ve Motor Bakımı

Courses

HAVA ARACI SİSTEMLERİ 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Scientific Research and Ethics, Doctorate, 2022 - 2023
GAZ TÜRBİNLİ MOTORLAR, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Aircraft Systems, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
KARİYER PLANLAMA, Undergraduate, 2022 - 2023, 2021 - 2022
Gas Turbine Engines, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
HAVA ARACI SİSTEMLERİ 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
KARİYER PLANLAMA, Undergraduate, 2022 - 2023, 2021 - 2022
Scientific Research and Ethics , Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
HAVA ARACI SİSTEMLERİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
AIRCRAFT STRUCTURES-1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
UÇUŞ TEORİSİ, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
HAVA ARACI YAPILARI 1, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
HAVA ARACI HİDROLİK VE PNÖMATİK SİSTEMLERİ, Undergraduate, 2021 - 2022
Flight Theory, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Hava Aracı Hidrolik ve Pnömatik Sistemleri, Undergraduate, 2021 - 2022
SEMİNER, Postgraduate, 2020 - 2021
Aircraft System Modeling, Doctorate, 2021 - 2022
AIRCRAFT SYSTEMS I, Undergraduate, 2020 - 2021
INTRODUCTION TO FINITE ELEMENTS METHOD, Undergraduate, 2020 - 2021
SONLU ELEMENLAR METODUNA GİRİŞ, Undergraduate, 2020 - 2021
Pistonlu Motorlar -1, Undergraduate, 2017 - 2018
Uçak Güç Sistem Uygulamaları, Undergraduate, 2017 - 2018
Uçuş Teorisi, Undergraduate, 2016 - 2017
Havacılıkta Emniyet Yönetimi, Undergraduate, 2016 - 2017
Uçak Yapıları ve Uygulamaları, Undergraduate, 2016 - 2017
Hava Aracı Malzeme Bilgisi, Undergraduate, 2016 - 2017

Advising Theses

Taştan M., Model Bir Gaz Türbin Yanma Odasında Dizel Metan Karışımlarının Yanma Karakteristiği ve Emisyon Değerlerinin DeneySEL İncelenmesi, Doctorate, İ.SİVRİ(Student), Continues
Taştan M., GAZ TÜRBİNLİ BİR MOTORDA FARKLI YAKITLARIN YANMA DAVRANIŞLARININ İNCELENMESİ, Postgraduate, U.TIPIRDAMAZ(Student), Continues
Taştan M., N2 Seyreltmesinin Propan Alevinde Yanma Kararsızlıkları ve Emisyonları Üzerindeki Etkisi, Postgraduate, E.DEĞER(Student), Continues
Taştan M., METAN PROPAN KARIŞIMLARININ YANMA KARARSIZLIĞININ İNCELENMESİ, Postgraduate, İ.SALİ(Student), Continues
Taştan M., Manyetik Alan Altında Gaz Yakıtların Yanma Kararsızlığının İncelenmesi, Doctorate, K.MUTLU(Student), Continues
Taştan M., PLAZMA DESTEKLİ YANMANIN DENEYSEL İNCELENMESİ, Doctorate, S.ÇETİNTAŞ(Student), Continues
Taştan M., HİDROJENLE ZENGİNLEŞTİRİLMİŞ PROPAN YAKITININ YANMA KARARSIZLIĞININ İNCELENMESİ,

Postgraduate, O.BOZTOPRAK(Student), 2023

Taştan M., Ön Karışımli Model Bir Yakıcıda Farklı Eşdeğerlik Oranlarında Propan Yanmasının Araştırılması, Postgraduate, K.CENK(Student), 2023

Taştan M., Ön Karışımli Bir Yanma Odasında Girdap Üreteçlerinin Propan Yanma Davranışları ve Emisyon Değerlerine Etkisi, Postgraduate, C.SIPÇIK(Student), 2023

Taştan M., Ön Karışımli Bir Yanma Odasında Propan-Metan Karışımlarının Yanma Davranışlarının Deneyisel Araştırılması, Postgraduate, K.EMRE(Student), 2023

Taştan M., Kaya gazlarının yanma ve emisyon davranışlarının deneyisel incelenmesi, Postgraduate, S.ÇETİNTAŞ(Student), 2021

Taştan M., Oksijenle zenginleştirilmiş LPG yakıtının yanma kararsızlığının incelenmesi, Postgraduate, K.MUTLU(Student), 2021

Student Project

R & D Project, Teleskopik Kanat Tasarımının Değişik Hücüm Açılırları ve Hızdaki Stall Karakteristiğinin Araştırılması, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Gövde Ve Motor Bakımı, Turkey, 2022 - Continues

Scientific Refereeing

GAZI UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, February 2023

International journal of energy studies (Online), National Scientific Refreed Journal, January 2023

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, June 2022

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, December 2021

International Journal of Automotive Engineering and Technologies, National Scientific Refreed Journal, October 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, September 2020

Tasks In Event Organizations

Taştan M., 15th International Combustion Symposium, Scientific Congress, Kayseri, Turkey, Haziran 2020

Scientific Research / Working Group Memberships

Yanma Araştırma Grubu, Erciyes University, Turkey, comlaberu@gmail.com, 2019 - Continues

Metrics

Publication: 34

Citation (WoS): 163

Citation (Scopus): 181

H-Index (WoS): 6

H-Index (Scopus): 6

Congress and Symposium Activities

The Fifth International Hydrogen Technologies Congress (IHTEC-2021), Attendee, Niğde, Turkey, 2021

8th International Conference on Renewable Fuels, Combustion and Fire, Attendee, Ankara, Turkey, 2021

15th International Combustion Symposium (INCOS 2020), Attendee, Kayseri, Turkey, 2020
7th International Conference on Renewable Fuels Combustion and Fire – FCE2019, Attendee, Kayseri, Turkey, 2019
International Eurasian Conference On Science, Engineering And Technology, Attendee, Ankara, Turkey, 2018
INTERNATIONAL EURASIAN CONFERENCE ON SCIENCE, ENGINEERING AND TECHNOLOGY,, Attendee, Ankara, Turkey, 2018
14th International Conference of Combustion, Attendee, Karabük, Turkey, 2018
International Advanced Researches and Engineering Congress, Attendee, Osmaniye, Turkey, 2017
VI. Ulusal Havacılık ve Uzay Konferansı, Attendee, Kocaeli, Turkey, 2016
8th Ankara International Aerospace Conference, Attendee, Ankara, Turkey, 2015
III. International Conference on Nuclear and Renewable Energy Resources, Attendee, İstanbul, Turkey, 2012
VI. Yeni ve Yenilenebilir Enerji Kaynakları Sempozyumu, Attendee, KAYSERİ, Turkey, 2011
10th International Conference in Sustainable Energy Technologies (SET2011), Attendee, İstanbul, Turkey, 2011

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Thermodynamics, Heat and Mass Transfer, Fuels and Combustion, Computational fluid dynamics, Aeronautical and Space Engineering, Aeronautical Engineering , Flight Sciences, Aircraft System Technologies, Aerodynamics, Aircraft Propulsion Systems, Engineering and Technology

Representation and Promotion Activities

Institutional Representation, Türkiye Odalar ve Borsalar Birliği-TOBB, Turkey, İstanbul, 2023 - 2023
Institutional Representation, Uçak Teknisyenleri Derneği(UTED), Turkey, İstanbul, 2023 - 2023