SEDA VATAN CAN

RES. ASST. PHD

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International Researcher IDs
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Publons / Web Of Science ResearcherID: ADE-4377-2022
ScopusID: 57217587453
Yoksis Researcher ID: 282206

Education

Doctorate 2019 - 2025	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Mechatronics Engineering, Turkey
Postgraduate 2016 - 2019	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Mechanical Engineering, Turkey
Undergraduate 2011 - 2016	Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, Turkey

Foreign Languages

English

Certificates, Courses and Trainings

Vocational Course, TIA-PRO1 Temel Seviye Otomasyon Eğitimi, PROMEDA AKADEMİ, 2025

Dissertations

Doctorate, Integration of passive control methods for suppressing endpoint vibrations of lightweight manipulators, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Mechatronics Engineering, 2025
Postgraduate, Dynamic stability analysis of a curved beam with suspended spring-mass systems, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2019

Academic Positions

Research Assistant 2018 - Present	Manisa Celal Bayar University, HASAN FERDİ TURGUTLU TEKNOLOJİ FAKÜLTESİ, MEKATRONİK MÜHENDİSLİĞİ

Research Assistant 2025 - 2025	Technische Universitaet München, School of Engineering and Design, Chair of Applied Mechanics
Research Assistant 2024 - 2024	Universiteit Antwerpen
Research Assistant 2022 - 2022	Universita Degli Studi di Salerno

Funded Projects

1. Vatan Can S., TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Bio-dynamic monitoring, diagnosis and follow-up of Abdominal Aortic Aneurysms using optical imaging techniques, 2026 - 2027
2. Vatan Can S., Karaca D., Yaşa A. C., Öğüt M. N., TUBITAK Project, 4007 - Bilim Şenlikleri Destekleme Programı, Manisa Bilim Şenliği 2, 2023 - 2023
3. Vatan Can S., Yaşa A. C., Karaca D., Öğüt M. N., Project Supported by Other Official Institutions, STREAM It Up! 2, 2023 - 2023
4. BARDAK C., BARDAK F., SELÇUK G., VATAN CAN S., KARACA D., TUBITAK Project, TÜBİTAK 4007 Payas Deprem Yaralarını Bilimle Sarıyor, 2023 - 2023
5. Vatan Can S., Yaşa A. C., Karaca D., Öğüt M. N., Project Supported by Other Official Institutions, STREAM lt Up!, 2022 - 2022
6. UYSAL A., ŞAHİN C. A., SOYKÖK İ. F., TURAL K., AYVACIKLI M., KELEKÇİ E., KARAÇOR M., VATAN CAN S., AKTER A. Y., Project Supported by Higher Education Institutions, Elektrikli Araç İçin Elektrik Motoru-Motor Sürücü Tasarımı ve Test Sisteminin Gerçekleştirilmesi, 2021 - 2022
7. UYSAL A., AYVACIKLI M., VATAN CAN S., TURAL K., KARAÇOR M., Project Supported by Higher Education Institutions, Mekatronik Mühendisliği Pnömatik, Aktüatör ve Uygulayıcılar Alanlarında Eğitim Modelinin Geliştirilmesi., 2018 - 2019

Awards

1. Vatan Can S., Publishing Honor Award, Dokuz Eylül Üniversitesi, January 2022

Jury Memberships

Competition, TEKNOFEST Digital Technologies in Industry, T3 Vakfı, September, 2025
Competition, 11. Haluk Sılay Üniversitelerarası Bitirme Projeleri Sergisi ve Yarışması, TMMOB İzmir Şubesi, July, 2025

Articles

1. **Model-based analysis of an industrial PLC-controlled dead-time thermal system**
   Malgaca L., Vatan Can S., Asil D., Akbalik F. G., Karaatli K., Acar B.
   CASE STUDIES IN THERMAL ENGINEERING, vol.87, 2026 (SCI-Expanded, Scopus)
2. **Integration approach for passive vibration control of multi-link flexible manipulators**
   Vatan Can S., Malgaca L.
   JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.48, no.1, 2025 (SCI-

Expanded, Scopus)

3. **Hybrid passive vibration control of lightweight manipulators**
   Malgaca L., Vatan Can S.
   Mechanical Systems and Signal Processing, vol.220, 2024 (SCI-Expanded, Scopus)
4. **Vibration and dynamic stability analysis of curved beam with suspended spring–mass systems**
   Vatan Can S., Cankaya P., Öztürk H., Sabuncu M. H.
   Mechanics Based Design of Structures and Machines, vol.50, no.3, pp.954-968, 2022 (SCI-Expanded, Scopus)
5. **ASILI KÜTLE-YAY SİSTEMLERİNE SAHİP KOMPOZİT EĞRİ KİRİŞİN DİNAMİK KARARLILIK ANALİZİ**
   Vatan S., Öztürk H.
   Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.25, no.3, pp.1557-1576, 2020 (TRDizin)

Papers Presented at Peer-Reviewed Scientific Conferences

1. **Investigating AAA-Related BioDynamic Responses**
   Vatan Can S.
   External Conference of the Chair of Applied Mechanics (ECAM) 2026, Munich, Germany, 30 September - 02 October 2026, (Unpublished)
2. **ACTUATOR–STRUCTURE INTERACTION IN FLEXIBLE FRAMES: VIBRATION CHARACTERISTICS AND ENERGY CONSIDERATIONS**
   AKBALIK F. G., MALGACA L., VATAN CAN S., ASIL D., GÖREN A.
   Annual Congress of International Institute of Acoustics and Vibration (IIAV), ICSV32, İstanbul, Turkey, 5 - 10 July 2026, (Full Text)
3. **PID Denetleyicili Bir Isıl Sistemin Gerçek Zamanlı Sıcaklık Kontrolü Performansının Deneysel İncelenmesi**
   ASIL D., MALGACA L., KARAATLI K., VATAN CAN S., AKBALIK F. G.
   ULUSLARARASI MEKATRONİK ÖĞRENCİ KONFERANSI - MEKON 2026, İstanbul, Turkey, 25 June 2026, (Full Text)
4. **Çok Adımlı Girdi Şekillendirici Tasarımı ve Uygulaması**
   Vatan Can S., Malgaca L.
   22. Ulusal Makina Teorisi Sempozyumu, Ankara, Turkey, 3 - 05 September 2025, pp.56-62, (Full Text)
5. **Application of the Posicast Control Theory to Flexible Manipulators**
   Malgaca L., Vatan Can S.
   11th International Congress on Fundamental and Applied Sciences 2024 (ICFAS2024), İstanbul, Turkey, 9 - 11 July 2024, (Summary Text)
6. **Experimental Active Vibration Control of a Highly Flexible Composite Manipulator with Acceleration Feedback**
   Uyar M., Malgaca L., Lök Ş., Vatan Can S.
   16th International Conference on Acoustic and Vibration of Mechanical Structure, AVMS 2021, Timisoara, Romania, 28 - 29 May 2021, vol.274, pp.225-233, (Full Text)
7. **Asılı Kütle-Yay Sistemlerine Sahip Eğri Kirişin Dinamik Kararlılık Analizi**
   Vatan S., Sabuncu M., Öztürk H.
   2nd International Students Science Congress, İzmir, Turkey, 4 - 05 May 2018, (Summary Text)
8. **Çatlaklı Ara Bağlantı Parçasına Sahip Aerofoil Kesitli (NACA 6409) Kanat Paketlerinin Doğal Frekans Analizi**
   Vatan S., Sabuncu M.
   18. Ulusal Makina Teorisi Sempozyumu, Trabzon, Turkey, 5 - 07 July 2017, pp.196-205, (Full Text)

Courses

Undergraduate
Statik, Undergraduate, 2025 - 2026
Statics, Undergraduate, 2024 - 2025

Patent

Malgaca L., Vatan Can S., DESIGN OF A MOTION PROFILE THAT PROVIDES NONVIBRATING DRIVE OF A SYSTEM WITH HYBRID INPUT SHAPING METHOD, Patent, CHAPTER F Mechanical engineering; Lighting; Heating; Weaponry; Destroyed Materials, The Invention Recourse Number: 2023/018988 , Standard Registration, 2023

Memberships and Roles in Scientific Organizations

Turkish Machine Theory Association, Member, 2024 - Present, Turkey
International Federation for the Promotion of Mechanism and Machine Science, Member, 2024 - Present, Turkey

Mobility Activity

Improving Competencies and Qualifications, Post Doc, Technische Universitaet München, Germany, 2025 - 2025
Other, Workshop, Wroclaw University of Science and Technology, Poland, 2024 - 2024
Erasmus Programme, Intership, Universiteit Antwerpen, Belgium, 2024 - 2024
Erasmus Programme, Staff Mobility, Universita Degli Studi di Salerno, Italy, 2022 - 2022

Metrics

Publication: 13
Citation (WoS): 26
Citation (Scopus): 27
H-Index (WoS): 2
H-Index (Scopus): 2

Research Areas

Avesis Research Areas: Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Mechanisms, Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations
WoS Research Areas: Engineering Mechanical, Automation & Control Systems, Robotics
Scopus Research Areas: Automotive Engineering, Control and Systems Engineering