

Res. Asst. TALHA BOZ



Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAF-6654-2020

ScopusID: 55293368900

Yoksis Researcher ID: 21503

Education Information

2020 - Continues	Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Mechatronics Engineering, Turkey
2015 - 2020	Undergraduate, Istanbul Medipol University, Faculty Of Law, Hukuk, Turkey
2010 - 2012	Postgraduate, Sabanci University, Institute Of Science, Mechatronics Engineering, Turkey
2005 - 2010	Undergraduate, Sabanci University, Faculty Of Engineering And Natural Sciences, Mechatronics Engineering, Turkey

Foreign Languages

English, C2 Mastery

Dissertations

2012	Structural Health Monitoring of Composite Materials with FBG Sensors: Damage Detection and Remaining Useful Life Prediction, Sabanci University, Institute Of Science, Mechatronics Engineering, Postgraduate
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Research Areas

System Dynamics and Control, Robotics, Modeling and Simulation of Dynamic Systems

Academic Titles / Tasks

2011 - Continues	Research Assistant, Marmara University, Faculty of Technology, Mechatronic Engineering
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Academic and Administrative Experience

2012 - Continues	Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Üyesi, Marmara University, Faculty of Technology, Mechatronic Engineering
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Courses

2016 - 2017	Numerical Analysis, Undergraduate
2016 - 2017	Calculus II, Undergraduate
2016 - 2017	Calculus I, Undergraduate

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Prediction of fatigue response of composite structures by monitoring the strain energy release rate with embedded fiber Bragg gratings**
KEULEN C. J., AKAY E., MELEMEZ F., KOCAMAN E., DENİZ A., YILMAZ Ç., BOZ T., YILDIZ M., TÜRKMEN H. S., Suleman A.
JOURNAL OF INTELLIGENT MATERIAL SYSTEMS AND STRUCTURES, vol.27, no.1, pp.17-27, 2016 (SCI-Expanded)
- II. **An Experimental Study on the Process Monitoring of Resin Transfer Molded Composite Structures Using Fiber Optic Sensors**
YILDIZ M., ÖZDEMİR N. G., BEKTAŞ G., KEULEN C. J., BOZ T., ŞENGÜN F. E., ÖZTÜRK C., MENCELOĞLU Y. Z., Suleman A.
JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME, vol.134, no.4, 2012 (SCI-Expanded)

Articles Published in Other Journals

- I. **Electronic and Mechanical Design of a Hexapod Land Searching Robot**
Boz T., Aras İ., Kıkıcı S., Ersoy S.
International Advanced Researches and Engineering Journal, vol.4, no.1, pp.34-40, 2020 (Peer-Reviewed Journal)
- II. **Vertical axis hybrid wind turbine design**
TOPTAŞ E., Bayrak M. A., BOZ T.
Journal of Mechatronics and Artificial Intelligence in Engineering, 2020 (Peer-Reviewed Journal)
- III. **Study of Local and Transient Buckling in Glass Fiber Reinforced Composite Using Fiber Bragg Grating**
MELEMEZ F., BOZ T., CHELLIAH P., BEKTAŞ G., YILDIZ M., ÖZTÜRK C., MENCELOĞLU Y. Z.
Key Engineering Materials, vol.543, pp.346-351, 2013 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Diesel Engine NOx Emission Modeling with Airpath Input Channels**
BOZ T., ÜNEL M., ARAN V., YILMAZ M., ÇETİN G., BAYBURTLU C., KÖPRÜBAŞI K.
IECON 2015 - 41ST ANNUAL CONFERENCE OF THE IEEE INDUSTRIAL ELECTRONICS SOCIETY, Yokohama, Japan, 9 - 12 November 2015, pp.3382-3387
- II. **Sistem Tanılama Yöntemleri ile Dizel Motor NOx Emisyonu Modellenmesi**
BOZ T., ÜNEL M., ARAN V., YILMAZ M., ÇETİN G., BAYBURTLU C., KÖPRÜBAŞI K.
TOK'15: Otomatik Kontrol Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015
- III. **Simulation studies of spectral subtraction based temperature compensation of FBG sensor for structural health monitoring based on principal component analysis**
CHELLIAH P., DENİZ A., KEULEN C. J., BEKTAŞ G., BOZ T., MELEMEZ F., ÖZTÜRK C., AFZAL S., YILDIZ M.
9th International Workshop on Structural Health Monitoring (IWSHM 2013), STANFORD, United States Of America, 12 - 14 September 2013
- IV. **Simulation Studies of Spectral Subtraction Based Temperature Compensation of FBG Sensor for Structural Health Monitoring**
Chelliah P., Deniz A., Keulen C., Bektas G., Boz T., Melemez F., Ozturk C., Suleman A., Yildiz M.

9th International Workshop on Structural Health Monitoring (IWSHM), California, United States Of America, 10 - 12 September 2013, pp.478-479

V. **Damage detection in composite plates using fiber bragg gratings**

BOZ T., CHELLIAH P., BEKTAŞ G., MELEMEZ F., YILDIZ M., ÖZTÜRK C.

15th European Conference on Composite Materials (ECCM15), VENEĐİK, Italy, 24 - 28 June 2012

VI. **Fiber Bragg grating and etched optic sensors for flow and cure monitoring of resin transfer molded composite structures**

BEKTAŞ G., BOZ T., KEULEN C. J., YILDIZ M., ÖZTÜRK C., MENCELOĞLU Y. Z., AFZAL S.

The 18th International Conference on Composite Materials (ICCM18), JEJU ISLAND, South Korea, 21 - 26 August 2011

VII. **Fatigue monitoring of glass fiber reinforced composite using fiber Bragg grating**

MELEMEZ F., BOZ T., CHELLIAH P., BEKTAŞ G., YILDIZ M., ÖZTÜRK C., MENCELOĞLU Y. Z.

14th International Conference on Advances in Materials Processing Technologies (AMPT-2011), İstanbul, Turkey, 13 - 16 July 2011

Supported Projects

2018 - 2020	Akıllı Kapı Kilit Sistemi, TUBITAK Project
2017 - 2019	MİKRO- ELEKTRO- MEKANİK- SİSTEMLER (MEMS) TASARIMI ve FABRİKASYON TEKNOLOJİLERİ EĞİTİMLERİ İLE MEMS ÜRETİM ve ARAŞTIRMA FARKINDALIĞININ ARTTIRILMASI PROJESİ, Project Supported by Other Official Institutions
2014 - 2018	System Identification Methods for Diesel Engine Calibration Process, Project Supported by Other Private Institutions

Activities in Scientific Journals

2020 - Continues	Journal of Mechatronics and Artificial Intelligence in Engineering, Committee Member
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Scientific Refereeing

December 2022	JOURNAL OF MEASUREMENTS IN ENGINEERING, Journal Indexed in ESCI
June 2020	International Journal of 3D Printing Technologies and Digital Industry, Other Indexed Journal

Scientific Consultations

2022 - Continues	Project Consultancy, TEKNOFEST
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Mobility Activity

2010 - 2010	Erasmus Programme, Student Mobility, Malardalens Högskola (University College of Malardalen-Vasteras), Sweden
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Metrics

Publication: 12

Citation (WoS): 37

Citation (Scopus): 53

H-Index (WoS): 3

H-Index (Scopus): 3

Scholarships

2010 - 2012 BİDEB, TUBITAK

Awards

May 2023 Digital Technologies in Industry (Advanced Category), Teknofest

Entrepreneurship Activities

2018 - Continues Limited, HANEIO TECHNOLOGY, 05 September 2018, Co-Founder

Non Academic Experience

2018 - Continues Business Establishment Private, HANEIO TECHNOLOGY

2018 - Continues HANEIO TEKNOLOJİ LTD. ŞTİ.