

Res. Asst. TALHA BOZ

Personal Information

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Göztepe Kampüsü Mekatronik Mühendisliği Kadıköy İstanbul



Education Information

2020 - Continues	Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Mechatronics Engineering, Turkey
2015 - 2020	Under Graduate, Istanbul Medipol University, Faculty Of Law, Hukuk, Turkey
2010 - 2012	Post Graduate, Sabanci University, Institute Of Science, Mechatronics Engineering, Turkey
2005 - 2010	Under Graduate, 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, Post Graduate
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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, Under Graduate
2016 - 2017	Calculus II, Under Graduate
2016 - 2017	Calculus I, Under Graduate

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- 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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)

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 (Refereed Journals of Other Institutions)
- II. **Vertical axis hybrid wind turbine design**
TOPTAŞ E., Bayrak M. A. , BOZ T.
Journal of Mechatronics and Artificial Intelligence in Engineering, 2020 (Refereed Journals of Other Institutions)
- 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 (Refereed Journals of Other Institutions)

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, TÜBİTAK 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

June 2020	International Journal of 3D Printing Technologies and Digital Industry, Other Indexed Journal
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Mobility Activity

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

- I. Total Citations (WOS): 34
- II. h-index (WOS): 3

Scholarships

2010 - 2012	BİDEB, TÜBİTAK
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Entrepreneurship Activities

2018 - Continues	Limited, HANEIO TECHNOLOGY, 05 September 2018, Co-Founder
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Non Academic Experience

