Asst. Prof. BARIŞ DOĞAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-8477-2020

ScopusID: 23990043800

Yoksis Researcher ID: 21857

Biography

Barış DOĞAN was born in Izmir in 1978. He completed his high school education at Izmir Çınarlı Anatolian Vocational High School and graduated in 1996. He graduated from Marmara University Technical Education Faculty Electronics and Computer Division Computer and Control Education Program, which he entered in 1997, in 2002. After graduation, she started to work as a Computer Technical Teacher at Kadıköy Anatolian Trade and Trade Vocational High School under the Ministry of National Education. In the same year, he started his master's education in Marmara University, Institute of Science, Department of Electronic Computer, Computer and Control Education Program. While working as a technical teacher, during his graduate education, he worked as a paid lecturer in Computer Technology and Programming department of Marmara University Technical Sciences Vocational School for a total of 3 terms between 2003 and 2006. In 2004, he completed his military service as a Reserve Officer by taking a 1-year break from his jobs and education. His military service returned to work at his former post. In June 2006, he was appointed as a Research Assistant to Marmara University Technical Education Faculty Mechatronics Education Department. In 2012, he was accepted to the Techno-Enterprise Capital Support program of the Ministry of Science, Industry and Technology, received a grant and established an R&D company. In 2015, under the TÜBİTAK 2239 program, U.S.A. He received 1 month training in entrepreneurship, international trade and product development in Silicon Valley. In the same year, he passed the Marmara University Faculty of Technology Mechatronics Engineering department with full staff transfer. After July 15, 2016, he was appointed as lecturer with the decision of the Senate of Marmara University. He taught for two semesters in 2016-2017. He still continues to work at the same job site.

Education Information

2007 - 2018	Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Bilgisayar-Kontrol Eğitimi (YI) (Tezli), Turkey
2002 - 2007	Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Bilgisayar-Kontrol Eğitimi (YI) (Tezli), Turkey
1997 - 2002	Undergraduate, Marmara University, Faculty of Technical Education, Electronic and Computer Education, Turkey

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

2017	Sivil Havacılık Genel Müdürlüğü İnsansız Hava Aracı Ticari Pilot Sertifikası İHA-1, Personal Evolution, Samsun 19 Mayıs Üniversitesi UZAYTEM
2016	TÜBİTAK 1601 Mentor RD Training Eğitimi, Commercialization, Marmara University
2016	TÜBİTAK 1601 TeknoMENTORs Eğitimi, Commercialization, Middle East Technical University
2015	TÜBİTAK 2239 - A.B.D. Silikon Vadisi'nde "Uluslararası İş Geliştirme ve Hızlandırıcı Eğitimi", Commercialization, Club Silicon Valley Inc.
2014	Girişimci Destek Programı Oryantasyon Eğitimi, Entrepreneurship, TÜBİTAK TÜSSİDE

Dissertations

2018	INTEGRATING COMPUTER INTEGRATED FLEXIBLE MANUFACTURING SYSTEM (CIM/FMS) INTO MECHATRONICS EDUCATION AND CURRICULUM DEVELOPMENT, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Doctorate
2007	WEB BASED SYSTEM CONTROL AND DEVELOPMENT OF REMOTE ACCESS LABORATORY, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Electronics-Computer Education, Postgraduate

Research Areas

Simulation, Modelling and Identification, Controllers, Nonlinear Systems, Industrial automation, Communication Control Systems, Stability, Discrete Time Systems and Computer Control, Control Systems and Instrumentation, System Diagnostics, Time Varying Systems, Smart Factors, Field and Service Robots, Computer Vision, Human and Robot Interaction, Mechatronic Systems, Route and Motion Planning, Pattern Recognition and Analysis, Simulation and Modelling, Computer Networks, Equipment, Software, Printed Circuits, Thin Film, Thick Film and Hybrid ICs, Circuit Theory, Sensing Devices and Transducers, Electronic Circuits, Passive Circuit Components, Cables, Switches and Connectors, Electrical Machine Theory and Design, Electric Motor Drivers, Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems

Academic Titles / Tasks

2020 - Continues	Assistant Professor, Marmara University, Faculty of Technology, Mechatronic Engineering
2018 - 2020	Research Assistant PhD, Marmara University, Faculty of Technology, Mechatronic Engineering
2015 - 2018	Research Assistant, Marmara University, Faculty of Technology, Mechatronic Engineering
2006 - 2015	Research Assistant, Marmara University, Faculty of Technical Education, Mechatronic Education
2005 - 2006	Visiting Lecturer, Marmara University, Vocational School of Technical Sciences, Computer Technologies
2002 - 2006	Teacher, Ministry Of Education, Kadıköy Anatolian Trade Vocational High School
2003 - 2003	Visiting Lecturer, Marmara University, Vocational School of Technical Sciences, Computer Technologies

Academic and Administrative Experience

2018 - Continues	Coordinator of Faculty Publicity and Student Clubs, Marmara University, Faculty of Technology

Courses

2021 - 2022	Graduation Project, Undergraduate
2020 - 2021	Introduction to Computer Systems, Undergraduate
2020 - 2021, 2019 - 2020	Usage of Fundamental Information Technologies, Undergraduate
2020 - 2021, 2019 - 2020	Control Systems, Undergraduate
2019 - 2020	Automatic Control, Automatic Control Systems, Undergraduate
2019 - 2020	Industrial Automatic Control, Undergraduate
2020 - 2021	Electrical Motor Drivers, Undergraduate
2016 - 2017	Electronics 2, Undergraduate
2016 - 2017	Graduation Project 2, Undergraduate
2016 - 2017	Flexible Manufacturing Systems, Undergraduate
2016 - 2017	Workplace Training, Undergraduate
2016 - 2017	Electronics 1, Undergraduate
2005 - 2006, 2002 - 2003	Network Programming, Associate Degree
2005 - 2006, 2002 - 2003	Graduation Project, Associate Degree
2005 - 2006	Visual Programming 2, Associate Degree

Advising Theses

Continues	Baba A. F., Doğan B., Postgraduate, R.KAHRAMAN(Student), Development and Implementation of an Algorithm of Trajectory Planning and Computer Vision Based Obstacle Avoidance for Unmanned Aerial Vehicles
Continues	Doğan B., Erdal H., Postgraduate, K.PEHLİVAN(Student), Developing An Optical and Patern Recognition Based Precission Landing System For Rotary wing UAVS
2020	Erdal H., Doğan B., Postgraduate, F.TİRYAKİ(Student), Deep Learning Based Object Detection via UAV and Computation of GNSS Location Coordinates
2019	Demir Ö., Doğan B., Postgraduate, Ö.KUTLU(Student), ANALYSIS OF IMAGES OBTAINED BY UNMANNED AERIAL VEHICLE BY DEEP LEARNING METHODS

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A new device for assessment and training the human balance and coordination: Marmara Balance and Education System (MarBES)**
KURU ÇOLAK T., Özen T., Günay Yazıcı C., Sarı D. M., Karabacak N., SARI Z., POLAT M. G., DOĞAN B., TARIM M.
Irish Journal of Medical Science, vol.192, no.5, pp.2409-2416, 2023 (SCI-Expanded)

II. **The Role of the Maker Movement in Engineering Education: Student Views on Key Issues of Makerspace Environment**
DOĞAN B., DOĞAN B., ÜLKÜ E. E., BAŞ A., ERDAL H.
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.36, no.4, pp.1161-1169, 2020 (SCI-Expanded)

III. **A comparative study of denoising sEMG signals**
BAŞPINAR U., Senyurek V. Y., DOĞAN B., Varol H. S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.4, pp.931-944, 2015 (SCI-Expanded)

IV. **EXPERIMENT-BASED DETERMINATION of DC MOTOR PARAMETERS and OPTIMIZATION of PARAMETER DETERMINATION RESULTS**
Erdal H., Doğan B.

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, pp.589-598, 2012 (SCI-Expanded)

V. **System Control Through the Internet and a Remote Access Laboratory Implementation**
Doğan B., Erdal H.
Lecture Notes In Computer Science, vol.4823, pp.532-541, 2008 (SCI-Expanded)

Articles Published in Other Journals

I. **Design and Construction of Atmospheric Particle Sampling System by Unmanned Aerial Vehicle**
Akkoyunlu B. O., Oruç İ., Alpman E., Doğan B., Baltacı H.
International journal of advances in engineering and pure sciences (Online), vol.33, no.1, pp.90-96, 2021 (Peer-Reviewed Journal)

II. **Smart Tipper**
Doğan B.
ST Otomasyon Dergisi, no.60, pp.116-119, 2013 (Peer-Reviewed Journal)

III. **Electronic Stabilization Control Module**
Doğan B.
Otomasyon Dergisi, no.250, pp.368-370, 2013 (Peer-Reviewed Journal)

IV. **Computer Based Automation Of A Model Train Layout Whose Technology Relies On 1930's**
Doğan B., Bayar H., Utkan M.
Otomasyon Dergisi, no.225, pp.220-228, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Sağlıklı Genç Bireylerde "Marmara Balance And Education System (Marbes)" Cihazı Kullanılarak Değerlendirilen Denge Ve Koordinasyon Ölçümlerinin Güvenilirliği**
KURU ÇOLAK T., ÖZEN BERKOL T., GÜNAY YAZICI C., SARI D. M., KARABACAK N., SARI Z., POLAT M. G., DOĞAN B., TARIM M.
Uluslarası Denge Kongresi, Gaziantep, Turkey, 25 - 26 November 2022

II. **Inline contactless optical measuring of glass fiber properties and retrofitting an adaptive cooling system for glass fiber production**
Eberhardt B., Akdere M., Doğan B., Eryılmaz O.
Aachen Reinforced, Aachen, Germany, 17 - 19 October 2022, pp.1-2

III. **CNC System Design Part I: Jerk Limited Trajectory Generation with Micro Splines**
Doğan B.
TOK2022 Otomatik Kontrol Ulusal Toplantısı, Elazığ, Turkey, 15 - 18 September 2022, pp.269-274

IV. **Analysis Of Images Obtained By Unmanned Aerial Vehicle By Deep Learning Methods**
Kutlu Ö., Demir Ö., Doğan B.
1. Uluslararası Bilişim ve Yazılım Mühendisliği Konferansı, Ankara, Turkey, 6 - 07 November 2019, pp.1-4

V. **Sinirsel hesaplama çubuğunun mini-bilgisayar ortamında koşturulan derin sinir ağları uygulamasına etkisinin incelenmesi**
TİRYAKİ F., DOĞAN B., ERDAL H.
2. International Conference on Materials Science, Mechanical and Automotive Engineerings and Technology, Nevşehir, Turkey, 21 - 23 June 2019

VI. **MATLAB Simulink Tabanlı Otomatik Kod Üretimi ve Gömülü Anti Windup PI Denetleyici Tasarımı**
Sayın F. S., ERDAL H., DOĞAN B.
Otomatik Kontrol Ulusal Toplantısı, TOK2014, Kocaeli, Turkey, 11 - 13 September 2014

VII. **MATLAB Simulink Response Optimization Aracı ROA ile Kontrolör Katsayılarının Belirlenmesi**
ERDAL H., DOĞAN B.

Otomatik Kontrol Ulusal Toplantısı ve Sergisi, TOK2013, Malatya, Turkey, 26 - 28 September 2013

VIII. **Remote Access Control Laboratory Implementation Academic Success Analysis**
ERDAL H., ERSOY S., DOĞAN B.
The 6th International Computer and Instructional Technologies Symposium, ICITS2012, Gaziantep, Turkey, 4 - 06 October 2012, pp.206

IX. **Telemeter Application Online Monitor and Control of an Open Field Convertor over GPRS**
ONAT M., DOĞAN B., Abanoz H.
2nd International Symposium on Computing in Science Engineering, ISCSE2011, Aydın, Turkey, 1 - 04 April 2011, pp.251-253

X. **Design of an experimental system for scanning EMG method to investigate alterations of motor units in neurological disorders Nörolojik bozukluklardaki motor ünite değiş ikliklerinin araştirilmasina yönelik taramali EMG yöntemi için bir deneysel sistemin tasarimi**
Göker İ., Doğan B., Baslo M. B., Ertaş M., Ülgen Y.
2009 14th National Biomedical Engineering Meeting, BIYOMUT 2009, Balcova, Izmir, Turkey, 20 - 22 May 2009

XI. **Interface Design for Automation of the Scanning EMG Method**
Doğan B., Göker İ., Baslo M. B., Erdal H., Ülgen Y.
14th National Biomedical Engineering Meeting, İzmir, Turkey, 20 - 22 May 2009, pp.265-266

XII. **COMPUTER BASED DC MOTOR PARAMETER IDENTIFICATION, SIMULATION and PARAMETER ESTIMATION**
Erdal H., Doğan B., Taşkın S.
5. Uluslararası İleri Teknolojiler Sempozyumu (IATS'09), Karabük, Turkey, 13 - 15 May 2009, pp.26-31

XIII. **System control through the Internet and a remote access laboratory implementation**
Doğan B., Erdal H.
The 6th International Conference on Web-based Learning ICWL2007, Edinburgh, United Kingdom, 15 - 17 August 2007, pp.212-217

XIV. **Uzaktan Erişimli Laboratuvar Uygulamaları İçin Yazılım Tasarımı**
DOĞAN B., ERDAL H.
Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu UMES2007, Kocaeli, Turkey, 20 - 22 June 2007, pp.58-61

Expert Reports

I. **Dosya No: 2016/110 E.**
Doğan B.
T.C. İSTANBUL 13. ASLİYE TİCARET MAHKEMESİ, pp.7, İstanbul, 2017

II. **File Number: 2010/509 E.**
Doğan B., Oktay Özdemir S., Özket C.
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.68, İstanbul, 2016

III. **File Number: 2016/132**
Doğan B., Oktay Özdemir S., Özket C.
T.C. İSTANBUL 6. ASLİYE TİCARET MAHKEMESİ, pp.14, İstanbul, 2016

IV. **File Number: 2014/58**
Doğan B., Gezgin S., Kandemir C.
T.C. İSTANBUL 9. ASLİYE HUKUK MAHKEMESİ, pp.8, İstanbul, 2016

V. **File Number: 2011/36**
Doğan B., Gezgin S., Kandemir C.
T.C. İSTANBUL 9. ASLİYE HUKUK MAHKEMESİ, pp.11, İstanbul, 2016

VI. **Dosya No: 2013/423**
Doğan B., Gezgin S., Kandemir C.
T.C. İSTANBUL 9. ASLİYE HUKUK MAHKEMESİ, pp.6, İstanbul, 2016

VII.   **File Number: 2013/119**
Doğan B., Akkanat H., Akın H.
T.C. İSTANBUL 6. ASLİYE TİCARET MAHKEMESİ, pp.15, İstanbul, 2015

VIII.   **File Number: 2013/571 D. İş**
Doğan B., Berzek A. N., Özgöncü H.
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.76, İstanbul, 2014

IX.   **File Number: 2013/126 E.**
Doğan B., Özket C.
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.6, İstanbul, 2013

X.   **File Number: 2012/118 E.**
Doğan B., Ökten N. Z., Şahiniz S.
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ , pp.24, İstanbul, 2013

XI.   **File Number: 2008/415 E.**
Doğan B., Ergül N., Kepekçi Ş. D.
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.20, İstanbul, 2013

XII.   **File Number: 2011/273**
Doğan B., Şenol İ., Özket C.
T.C. İSTANBUL ASLİYE 46. TİCARET MAHKEMESİ, pp.10, İstanbul, 2013

XIII.   **File Number: 2012/451 D. İş**
Doğan B.
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.9, İstanbul, 2012

XIV.   **File Number: 2011/489 E.**
Doğan B., Ercan R. M., Soysal A.
T.C. İstanbul 46. Asliye Ticaret Mahkemesi, pp.14, İstanbul, 2012

XV.   **File Number: 2010 /403 E.**
Doğan B., Güman N., Akın H.
T.C. İSTANBUL 46. ASLİYE TİCARET MAHKEMESİ, pp.6, İstanbul, 2012

XVI.   **File Number: 2011/240**
Doğan B., Akkanat H., Kök H.
T.C. İSTANBUL 48. ASLİYE TİCARET MAHKEMESİ, pp.8, İstanbul, 2012

XVII.   **File Number: 2012/73 D. İş**
Doğan B., Şenol İ., Benzek A.
T.C. İSTANBUL 45. ASLİYE TİCARET MAHKEMESİ, pp.88, İstanbul, 2012

XVIII.   **File Number: 2011/191 D. İş**
Doğan B.
T.C. İSTANBUL ÜMRANİYE 3. SULH HUKUK MAHKEMESİ, pp.3, İstanbul, 2011

XIX.   **File Number: 2009/93**
Doğan B., Oktay Özdemir S., Soysal A.
T.C. İSTANBUL 7. SULH HUKUK MAHKEMESİ, pp.11, İstanbul, 2010

XX.   **File Number: 2008/234 E.**
Doğan B.
T.C. İSTANBUL ÜMRANİYE 2. ASLİYE CEZA MAHKEMESİ, pp.6, İstanbul, 2009

XXI.   **File Number: 2008/214**
Doğan B.
T.C. İSTANBUL ÜMRANİYE 2. ASLİYE CEZA MAHKEMESİ, pp.2, İstanbul, 2008

XXII.   **File Number: 2006/208 E.**
Doğan B.
T.C. İSTANBUL ÜMRANİYE 2. ASLİYE CEZA MAHKEMESİ, pp.2, İstanbul, 2008

Supported Projects

2021 - 2024	5 Eksen Yeni Nesil CNC Kontrol Sistemi ve Dijital İkiz Platformu Geliştirilmesi, TUBITAK Project
2021 - 2023	Optimization and Model Based Control of Cooling System Used in Glass Fiber Manufacturing, TÜBİTAK International Multi-Cooperation Project
2019 - 2020	İHA Üzerinden Derin Öğrenme Tabanlı Nesne Belirlenmesi ve GNSS Konum Koordinatlarının Hesaplanması, Project Supported by Higher Education Institutions
2018 - 2020	Marmara Üniversitesi Ürün Geliştirme Merkezi (MÜRGEMER) Kurulumu Projesi, Development Agency
2017 - 2019	INCREASING THE AWARENESS OF MEMS PRODUCTION AND RESEARCH WITH MICRO ELECTROMECHANICAL SYSTEMS (MEMS) DESIGN AND FABRICATION TECHNOLOGIES TRAININGS, Project Supported by Other Official Institutions
2015 - 2016	Control Systems and Basic Signal Processing Laboratory Research and Development Infrastructure Project, Project Supported by Other Official Institutions
2014 - 2015	Computer Aided Design and Manufacturing CAD CAM and Computer Aided Manufacturing CIM Laboratories Infrastructure Development and Modernization, Project Supported by Other Official Institutions
2014 - 2014	Mechatronics Distance Education And Project Management Information Sharing Network Center Of Excellence, Development Agency
2012 - 2014	Electronic Stabilization and Control Module For Transport Vehicles, Project Supported by Other Official Institutions
2005 - 2007	Internet Based Control Of Gunt Proccess Training System, Project Supported by Higher Education Institutions

Patent

2012	Patent

Memberships / Tasks in Scientific Organizations

2015 - Continues	Institute of Electrical and Electronics Engineers (IEEE) - Control Systems Society, Member

Scientific Refereeing

November 2020	TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, HAUS ARGE LİMİTED ŞİRKETİ, Turkey
December 2018	TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E
January 2015	MEASUREMENT, SCI Journal

Scientific Consultations

2018 - Continues	Scientific Consultancy, DELTAV Space Technologies Inc.

Tasks In Event Organizations

08 Nisan 2020	Doğan B., 14th International MEB Robot Competition, Social Activities, Şanlıurfa, Turkey
10 Nisan 2019	Doğan B., 13rd International MEB Robot Competition, Social Activities, Samsun, Turkey
09 Mayıs 2018	Doğan B., 12. Uluslararası MEB Robot Yarışması, Social Activities, Sivas, Turkey
10 Mayıs 2017	Doğan B., 11th International MEB Robot Competition, Social Activities, Konya, Turkey

Metrics

Publication: 45
Citation (WoS): 12
Citation (Scopus): 17
H-Index (WoS): 2
H-Index (Scopus): 2

Congress and Symposium Activities

2013	Otomatik Kontrol Ulusal Toplantısı ve Sergisi, TOK2013, Working Group, Malatya, Turkey
2012	The 6th International Computer and Instructional Technologies Symposium, ICITS2012, Working Group, Gaziantep, Turkey
2011	2nd International Symposium on Computing in Science & Engineering, ISCSE2011, Working Group, Aydın, Turkey
2009	14. Biyomedikal Mühendisliği Ulusal Toplantısı, BİYOMUT2009, Working Group, İzmir, Turkey
2009	5th International Advanced Technologies Symposium, Karabük University, IATS09, Working Group, Karabük, Turkey
2007	The 6th International Conference on Web-based Learning ICWL2007, Working Group, Edinburgh, United Kingdom
2007	Ulusal Teknik Eğitim, Mühendislik ve Eğitim Bilimleri Genç Araştırmacılar Sempozyumu, UMES2007, Working Group, Kocaeli, Turkey

Awards

September 2018	TÜBİTAK International Aerial Vehicle Competition (UAVTURKEY 2018) Rotary-wing Category Honorable Mention, Tübitak
December 2012	ULAKBİM Uluslararası Bilimsel Yayınları Teşvik Ödülü, Tübitak Ulakbim

Entrepreneurship Activities

2012 - Continues	Limited, BCD Teknik ARGE ve Robotik Otomasyon San. Tic. Ltd. Şti., 24 May 2012, Co-Founder

Non Academic Experience

2021 - Continues	Altınay Robot Teknolojileri San. Ve Tic. A.Ş.
2018 - 2020	DeltaV Uzay Teknolojileri A.Ş.
2002 - 2006	Kadıköy Anadolu Ticaret ve Ticaret Meslek Lisesi