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Personal Information

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International Researcher IDs

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Education Information

Doctorate, The University of Lancaster, Engineering Department, Mechatronics Engineering, United Kingdom 1996 - 1999

Postgraduate, University of Lancaster, Engineering Department, Mechatronics Engineering, United Kingdom 1994 - 1995

Undergraduate, Gazi University, Mühendislik Mimarlık Fakültesi, Makina Müh., Turkey 1989 - 1993

Foreign Languages

English, C1 Advanced

Dissertations

Postgraduate, Manyetik retarder sisteminde esnek kontrol uygulaması, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Müh., 2014

Postgraduate, Bir dizel araç sisteminin modellenmesi ve yapay zeka ile yakıt ekonomisi için kontrollü, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Müh., 2012

Postgraduate, Aşağı-Yukarı hareketli Dalga Enerjisi Konvertörü Modelleme ve Kontrol Uygulaması (FROG ? Form 2), Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Müh., 2011

Postgraduate, Zehirli gazları ve aynı zamanda havadaki partikülleri süzen aktif karbonlu filtre malzemesinin imalat süreci ve kullanım alanları, Mustafa Kemal Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Müh., 2010

Postgraduate, Robotik ekskavatör kazıcı kolu için kontrol ve kumanda sistemi tasarımı ve uygulaması, Mustafa Kemal Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Müh., 2010

Postgraduate, Tek serbestlik dereceli dalga enerjisi konvertörleri ve kontrol uygulamalar, Mustafa Kemal Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Müh., 2008

Postgraduate, Demir çelik sanayisinde hammaddeden kütük aşamasına kadar üretimin optimizasyonu, Mustafa Kemal Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Müh., 2003

Postgraduate, Amonyak-Su (NH₃-H₂O) Karışımli Absorbsiyonlu (Soğurmalı) Soğutma Sistemleri Ve Termodinamik Analizi, Mustafa Kemal Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Müh., 2001

Research Areas

Mechanical Engineering, Energy, Fluid Mechanics, Hydrogen Technologies and Fuel Cells , Advanced Energy

Technologies, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Robotics, Mechatronics, Mechanical Vibrations, Aeronautical and Space Engineering, Aeronautical Engineering , Structural Technologies, Aircraft System Technologies, Vehicle Dynamics and Modeling, Aircraft Propulsion Systems, Mechanism and Hydraulic / Fluid Systems, Engineering and Technology

Academic Titles / Tasks

Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Müh., 2014 - Continues
Associate Professor, Cukurova University, Mühendislik Mimarlık Fakültesi, Makina Müh., 2011 - 2014
Associate Professor, Mustafa Kemal Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Müh., 2009 - 2011
Assistant Professor, Mustafa Kemal Üniversitesi, Mühendislik Mimarlık Fakültesi, Makina Müh., 2000 - 2009

Supervised Theses

YAVUZ H., Flow control around an airfoil with passive flow control devices, Doctorate, E.TÜREN(Student), Continues
YAVUZ H., Modelling and Dynamic Analysis of a Vehicle using MATLAB Simulink, Postgraduate, Ö.Ünsal(Student), Continues
YAVUZ H., Online testing system development for fuel quality control applications, Postgraduate, Ç.ÖZGEÇTÜRK(Student), Continues
YAVUZ H., Control Techniques for Oscillating Wave Energy Converters, Doctorate, A.BURGAÇ(Student), Continues
YAVUZ H., Investigation of the Effect of the Plasma Actuators in Aerodynamic Flow Control Applications, Doctorate, H.AKBİYİK(Student), Continues
YAVUZ H., Additive manufacturing technique and its use in metallic material printing, Doctorate, V.Korkut(Student), Continues
YAVUZ H., Parametric design and development of a transformer system as a design example, Postgraduate, G.KILAGÖZ(Student), Continues
YAVUZ H., Use of Artificial Intelligence in Design of Input Shaper for Motion Control Mechanical Systems, Doctorate, S.BELLER(Student), Continues
YAVUZ H., Design and Control of a Novel Eddy Current Dynamometer, Doctorate, İ.ULUOCAK(Student), Continues

Jury Memberships

Associate Professor Exam, Doçentlik Sınavı, Üniversiteler Arası Kurul, July, 2018
Associate Professor Exam, Doçentlik Sınavı, Üniversiteler Arası Kurul, May, 2017
Associate Professor Exam, Doçentlik Sınavı, Üniversiteler Arası Kurul, July, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **EXPERIMENTAL STUDY OF DELAYING THE STALL OF THE NACA 0020 AIRFOIL USING A SYNTHETIC JET ACTUATOR ARRAY WITH DIFFERENT ORIFICE GEOMETRIES**
TÜREN E., YAVUZ H.
Isı Bilimi ve Tekniği Dergisi, vol.44, no.1, pp.129-142, 2024 (SCI-Expanded)
- II. **Model Predictive Control Coupled with Artificial Intelligence for Eddy Current Dynamometers**
ULUOCAK İ., YAVUZ H.
COMPUTER SYSTEMS SCIENCE AND ENGINEERING, vol.44, no.1, pp.221-234, 2023 (SCI-Expanded)
- III. **In-Space Additive Manufacturing Based on Metal Droplet Generation Using Drop-on-Demand Technique**
Korkut V., Yavuz H.

- JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.31, no.8, pp.6101-6111, 2022 (SCI-Expanded)
- IV. **Sustainable metal droplet formation via open-source, cost-effective, and modifiable droplet generator**
Korkut V., YAVUZ H.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.236, no.11, pp.6117-6129, 2022 (SCI-Expanded)
- V. **Artificial Intelligence Based PID Controller for an Eddy Current Dynamometer**
ULUOCAK İ., YAVUZ H.
INTELLIGENT AUTOMATION AND SOFT COMPUTING, vol.33, no.2, pp.1229-1243, 2022 (SCI-Expanded)
- VI. **Meta-Heuristic Tuning of the LQR Weighting Matrices Using Various Objective Functions on an Experimental Flexible Arm Under the Effects of Disturbance**
BİLGIÇ H. H., Sen M. A., YAPICI A., YAVUZ H., Kalyoncu M.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.46, no.8, pp.7323-7336, 2021 (SCI-Expanded)
- VII. **An intelligent serial connected hybrid control method for gantry cranes**
Yavuz H., Beller S.
MECHANICAL SYSTEMS AND SIGNAL PROCESSING, vol.146, 2021 (SCI-Expanded)
- VIII. **Modelling and simulation of a heaving wave energy converter based PEM hydrogen generation and storage system**
YAVUZ H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.50, pp.26413-26425, 2020 (SCI-Expanded)
- IX. **Enhancing the tensile properties with minimal mass variation by revealing the effects of parameters in fused filament fabrication process**
Korkut V., YAVUZ H.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.42, no.10, 2020 (SCI-Expanded)
- X. **Aerodynamic and energy-efficiency-based assessment of plasma actuator's position on a NACA0015 airfoil**
AKBIYIK H., YAVUZ H., Akansu Y. E.
CONTRIBUTIONS TO PLASMA PHYSICS, vol.60, no.2, 2020 (SCI-Expanded)
- XI. **Fuzzy Logic based hybrid type control implementation of a heaving wave energy converter**
BURGAÇ A., YAVUZ H.
ENERGY, vol.170, pp.1202-1214, 2019 (SCI-Expanded)
- XII. **A Study on the Plasma Actuator Electrode Geometry Configurations for Improvement of the Aerodynamic Performance of an Airfoil**
AKBIYIK H., YAVUZ H., Akansu Y. E.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.64, no.12, pp.719-725, 2018 (SCI-Expanded)
- XIII. **Comparison of the Linear and Spanwise-Segmented DBD Plasma Actuators on Flow Control Around a NACA0015 Airfoil**
AKBIYIK H., YAVUZ H., AKANSU Y. E.
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.45, no.11, pp.2913-2921, 2017 (SCI-Expanded)
- XIV. **Active control of flow around a circular cylinder by using intermittent DBD plasma actuators**
AKBIYIK H., AKANSU Y. E., YAVUZ H.
FLOW MEASUREMENT AND INSTRUMENTATION, vol.53, pp.215-220, 2017 (SCI-Expanded)
- XV. **A review of command shaping techniques for elimination of residual vibrations in flexible-joint manipulators**
Conker C., YAVUZ H., Bilgic H. H.
JOURNAL OF VIBROENGINEERING, vol.18, no.5, pp.2947-2958, 2016 (SCI-Expanded)
- XVI. **Quantized control settings based tuning of a heaving wave energy converter in irregular seas**
Mistikoglu S., YAVUZ H.
INTERNATIONAL JOURNAL OF GREEN ENERGY, vol.13, no.12, pp.1281-1291, 2016 (SCI-Expanded)
- XVII. **An Enhanced Control Technique for the Elimination of Residual Vibrations in Flexible-Joint**

Manipulators

Conker C., Kilic A., Mistikoglu S., Kapucu S., YAVUZ H.

STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, vol.60, no.9, pp.592-599, 2014 (SCI-Expanded)

XVIII. Hybrid input shaping to suppress residual vibration of flexible systems

Yavuz H., MISTIKOGLU S., Kapucu S.

JOURNAL OF VIBRATION AND CONTROL, vol.18, no.1, pp.132-140, 2012 (SCI-Expanded)

XIX. Assessment of Transition from Mechanical Engineering to Mechatronics Engineering in Turkey

Yavuz H., Mistikoglu S.

INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.25, no.1, pp.112-121, 2009 (SCI-Expanded)

Articles Published in Other Journals

I. CONCEPT DESIGN FOR OPTIMIZING MASS PRODUCTION PROCESSES WITH 3D PRINTER IN THE INDUSTRY

Villi Ö., VİLLİ O., YAVUZ H.

International Journal of 3D Printing Technologies and Digital Industry, vol.8, no.1, pp.8-19, 2024 (Peer-Reviewed Journal)

II. Power capture performance of a heaving wave energy converter for varying $b(\text{rad})/b(\text{pto})$ ratio

BURGAÇ A., YAVUZ H.

SN APPLIED SCIENCES, vol.2, no.10, 2020 (ESCI)

III. HAPTİK GERİ BİLDİRİME SAHİP ROBOT ELİN BULANIK MANTIK ESASLI KUVVET KONTROLÜ

KARACA A., CONKER Ç., YAVUZ H.

Konya mühendislik bilimleri dergisi, vol.7, no.1, pp.909-923, 2019 (Peer-Reviewed Journal)

IV. Comparison and Evaluation of Various Material Jetting Technologies in Terms of Additive Manufacturing

YAVUZ H., KORKUT V.

JOURNAL OF MATERIALS AND ELECTRONIC DEVICES, vol.1, no.2, pp.20-24, 2018 (Peer-Reviewed Journal)

V. Effects of Rotor Material on Eddy Current Brake Performance

ULUOCAK İ., YAVUZ H., GÜRSUL M.

European Mechanical Science, vol.1, no.4, pp.129-132, 2017 (Peer-Reviewed Journal)

Books

I. Mekatronik Mühendisliğine Giriş

YAVUZ H.

Papatya Yayıncılık, İstanbul, 2018

II. Bölüm 16. Mekatronik Yaklaşım ile Mühendislik Problemlerinin Analizi

YAVUZ H.

in: Mekatronik Mühendisliğine Giriş, Hakan YAVUZ, Editor, Papatya Yayıncılık, İstanbul, pp.561-600, 2018

III. Bölüm 2. Fonksiyon Esaslı Kavramsal Tasarım

YAVUZ H.

in: Mekatronik Mühendisliğine Giriş, Hakan YAVUZ, Editor, Papatya Yayıncılık, İstanbul, pp.41-80, 2018

IV. Bölüm 3. Mekatronik Sistemi Oluşturan Elemanlar ve Nitelikleri

YAVUZ H.

in: Mekatronik Mühendisliğine Giriş, Hakan YAVUZ, Editor, Papatya Yayıncılık, İstanbul, pp.81-118, 2018

V. Bölüm 10. Algılayıcılar Hareket Üreteçleri

YAVUZ H.

in: Mekatronik Mühendisliğine Giriş, Hakan YAVUZ, Editor, Papatya Yayıncılık, İstanbul, pp.341-378, 2018

VI. Bölüm 7. Mekanizmalar Modelleme ve Analiz

- YAVUZ H.
in: Mekatronik Mühendisliğine Giriş, Hakan YAVUZ, Editor, Papatya Yayıncılık, İstanbul, pp.225-256, 2018
- VII. **Bölüm 1. Mekatronik Mühendisliği Mekatronik Sistemler**
YAVUZ H.
in: Mekatronik Mühendisliğine Giriş, Hakan YAVUZ, Editor, Papatya Yayıncılık, İstanbul, pp.15-40, 2018
- VIII. **Bölüm 2. Fonksiyon Esaslı Kavramsal Tasarım**
YAVUZ H.
in: Mekatronik Mühendisliğine Giriş (Bölüm 2), YAVUZ Hakan, Editor, Papatya Bilim, İstanbul, pp.41-80, 2018
- IX. **Bölüm 7. Mekanizmalar Modelleme ve Analiz**
CONKER Ç., YAVUZ H.
in: Mekatronik Mühendisliğine Giriş (Bölüm 7), YAVUZ Hakan, Editor, Papatya Bilim, İstanbul, pp.225-256, 2018
- X. **Bölüm 3. Mekatronik Sistemi Oluşturan Elemanlar ve Nitelikleri**
YAVUZ H.
in: Mekatronik Mühendisliğine Giriş (Bölüm 3), YAVUZ Hakan, Editor, Papatya Bilim, İstanbul, pp.81-118, 2018
- XI. **Bölüm 16. Mekatronik Yaklaşım ile Mühendislik Problemlerinin Analizi**
CONKER Ç., YAVUZ H.
in: Mekatronik Mühendisliğine Giriş (Bölüm 16), YAVUZ Hakan, Editor, Papatya Bilim, İstanbul, pp.561-600, 2018
- XII. **Bölüm 1. Mekatronik Mühendisliği Mekatronik Sistemler**
YAVUZ H.
in: Mekatronik Mühendisliğine Giriş (Bölüm 1), YAVUZ Hakan, Editor, Papatya Bilim, İstanbul, pp.15-40, 2018
- XIII. **Bölüm 10. Algılayıcılar Hareket Üreteçleri**
AKKUŞ N., YAVUZ H.
in: Mekatronik Mühendisliğine Giriş (Bölüm 10), YAVUZ Hakan, Editor, Papatya Bilim, İstanbul, pp.341-378, 2018
- XIV. **Bölüm 15. Makine Teorisi ve Dinamiği**
YAVUZ H.
in: Makine Mühendisliğine Giriş, Necdet GEREN, Editor, Papatya Yayıncılık, İstanbul, pp.629-670, 2017
- XV. **Bölüm 15. Makine Teorisi ve Dinamiği**
YAVUZ H.
in: Makine Mühendisliğine Giriş, Prof. Dr. Necdet Geren, Editor, PAPATYA YAYINCILIK EĞİTİM, İstanbul, pp.629-670, 2017
- XVI. **Yapılarda ve Makinelerde Kuvvet**
EFEOĞLU İ., EKİCİ B., ERZİNCANLI F., ERGİN S., RENDE H., YAVUZ H., ALTUĞ E., ERSOY H., GÜNERHAN H., KURT HABİBOĞLU S.
in: Makine Mühendisliğine Giriş, Necdet Geren, Editor, Papatya Yayıncılık, İstanbul, pp.120-220, 2017
- XVII. **Wave Energy: Available Technologies and R&D Status**
YAVUZ H.
in: Energy Science and Technology Vol. 9: Geothermal and Ocean Energy, Umesh Chandra Sharma, Ram Prasad and Sri Sivakumar, Editor, Studium Press Llc, Texas, pp.420-453, 2015
- XVIII. **Wave Energy: Available Technologies and RD Status**
YAVUZ H., MISTIKOĞLU S., Thomas T., Aggidis G., Stallard T.
in: Energy Science and Technology, Vol 9, Geothermal and Ocean Energy, Sharma Umesh-Chandra, Prasad Ram, Sivakumar Sri, Govil J.N., Editor, STUDIUMPRESS LCC, Houston, pp.420-453, 2015

Papers Published in Refereed Scientific Meetings

- I. **PTO Control Design for a Multi-Axis WEC Device**
Hall C. M., Sheng W., YAVUZ H., Aggidis G.
34th International Ocean and Polar Engineering Conference, ISOPE 2024, Rhodes, Greece, 16 - 21 June 2024, vol.1, pp.641-648
- II. **Performance of Eddy Current Dynamometers with Changing Rotor Speed**

Uluocak İ., Yavuz H.

6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, no.321, pp.704

- III. **Effect of Rotor Temperature on Eddy Current Dynamometers**
Uluocak İ., Yavuz H.
7th International Mediterranean Science and Engineering Congress (IMSEC 2022), Antalya, Turkey, 25 - 27 October 2021, pp.703
- IV. **An Experimental Investigation of a NACA2415 airfoil Equipped with DBD Plasma Vortex Generators**
Akbiyik H., Yavuz H.
International Conference on Energy, Environment and Storage of Energy (ICEESEN)), Kayseri, Turkey, 19 - 21 November 2020, pp.114-118
- V. **GÖRÜNTÜ İŞLEME METODU KULLANILARAK BİR KARTEZYEN ROBOT TASARIMININ HAREKET KONTROLÜ**
CONKER Ç., HASKIOĞLU C., EREN B., YAVUZ H.
19. ULUSAL MAKİNE TEORİSİ SEMPOZYUMU (UMTS), Turkey, 4 - 06 September 2019, pp.557-564
- VI. **Design and Setup of A Eddy Current Dynamometer**
ULUOCAK İ., YAVUZ H., TOSUN E.
International Academic Conference on Engineering, Transport, IT and Artificial Intelligence (IAC-ETITAI) 2019, Budapeşte, Hungary, 23 - 24 August 2019, pp.179-186
- VII. **The Importance of Pressure Supplement in Metal Jetting Mechanism**
KORKUT V., YAVUZ H.
6th International Multidisciplinary Studies Congress, Gaziantep, Turkey, 26 - 27 April 2019
- VIII. **Comparison and Evaluation of Various Material Jetting Technologies in Terms of Additive Manufacturing**
KORKUT V., YAVUZ H.
5th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG2018), Nevşehir, Turkey, 4 - 06 October 2018
- IX. **Trending Techniques in Additive Manufacturing with Their Advantages and Disadvantages**
KORKUT V., YAVUZ H.
3rd International Energy Engineering Congress, Gaziantep, Turkey, 18 - 19 October 2018
- X. **Available And Emerging Metal Additive Manufacturing Techniques For Direct Metal Part Manufacturing**
KORKUT V., YAVUZ H.
3rd International Energy Engineering Congress, Gaziantep, Turkey, 18 - 19 October 2018
- XI. **Application of Artificial Neural Networks in Prediction of Compression Ignition Engine Performance and Emission Parameters**
Uluocak İ., Yıldırım S., Yavuz H., Tosun E.
292th International Conference on Science, Technology, Engineering and Management(ICSTEM), Paris, France, 25 - 26 August 2018, pp.52
- XII. **Active tuning based fuzzy logic control of a heaving wave energy converter in irregular seas**
YAVUZ H., BURGAÇ A., AKBIYIK H.
Renewable Energy Sources ? Research and Business (RESRB 2018), Brüksel, Belgium, 18 - 20 June 2018, pp.1
- XIII. **PARAMETRIC DESIGN OF A SEMI-TRAILER CHASSIS**
VİLLİ Ö., YAVUZ H.
9. Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 07 May 2018, pp.1271-1277
- XIV. **The Effects of 3D Flow Structure on the Aerodynamic Forces of an Aircraft Wing**
AKBIYIK H., YAVUZ H., BURGAÇ A.
1st International Advanced Researches Engineering Congress, Osmaniye, Turkey, 16 November - 18 June 2017, pp.711
- XV. **Evaluation of a new hybrid tuning technique for optimum operation of heaving type Wave Energy Converters**

BURGAÇ A., YAVUZ H.

1st International Advanced Researches Engineering Congress, Osmaniye, Turkey, 16 November - 18 June 2017, pp.670

XVI. Recent Status: Wave Energy Conversion and Control Systems

BURGAÇ A., YAVUZ H.

1st International Advanced Researches Engineering Congress, Osmaniye, Turkey, 16 November - 18 June 2017, pp.667

XVII. INVESTIGATION OF A NEW CONTROL APPLICATION FOR HEAVING TYPE WAVE ENERGY CONVERTER

BURGAÇ A., YAVUZ H.

3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 - 21 December 2017

XVIII. Anfis Based Fuzzy Controller Design of Ball and Beam System Using PD Controller

BİLGİÇ H. H., CONKER Ç., YAVUZ H.

International Advanced Researches Engineering Congress-2017, 16 - 18 November 2017, vol.1, pp.493

XIX. Effects of Rotor Material on Eddy Current Brake Performance

Uluocak İ., Yavuz H., Gürsul M.

2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 - 27 October 2017

XX. INVESTIGATION OF THE ELECTRODE GEOMETRY CONFIGURATIONS OF PLASMA ACTUATORS

AKBIYIK H., YAVUZ H., AKANSU Y. E.

10th International Conference on Sustainable Energy and Environmental Protection, BLED, Slovenia, 27 - 30 June 2017, pp.9-16

XXI. Assesment of Plasma Actuator's Position on Stall Angle for an Airfoil

YAVUZ H., AKBIYIK H., AKANSU Y. E.

10TH INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY AND ENVIRONMENTAL PROTECTION, Bled, Slovenia, 27 - 30 June 2017, pp.1-8

XXII. Assesment of Plasma Actuator's Position on Stall Angle for an Airfoil

AKBIYIK H., YAVUZ H., AKANSU Y. E.

10TH INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY AND ENVIRONMENTAL PROTECTION, Bled, Slovenia, 27 - 30 June 2017, pp.1-8

XXIII. Fuzzy Logic Based Complex System Control Implementation on Wave Energy Converters

BURGAÇ A., YAVUZ H.

10th International Conference on Sustainable Energy & Environmental Protection, Bled, Slovenia, 27 - 30 June 2017, vol.1, no.1, pp.1-13

XXIV. Assesment of Plasma Actuator's Position on Stall Angle for an Airfoil

AKBIYIK H., YAVUZ H., AKANSU Y. E.

10TH INTERNATIONAL CONFERENCE ON SUSTAINABLE ENERGY AND ENVIRONMENTAL PROTECTION, Bled, Slovenia, 27 - 30 June 2017, pp.1-8

XXV. Aerodynamic Force Estimation of a NACA0015 Airfoil with DBD Plasma Actuator Using ANN

AKBIYIK H., SEYHAN M., AKANSU Y. E., YAVUZ H., SARIOĞLU M.

3rd International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017, pp.93

XXVI. Aerodynamic Force Estimation of A NACA 0015 Airfoil with DBD Plasma Actuator Using Artificial Neural Network

AKBIYIK H., SEYHAN M., AKANSU Y. E., YAVUZ H., SARIOĞLU M.

3rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, 24 - 26 May 2017

XXVII. DESIGNING OF A DECISION SUPPORT SYSTEM FOR INPUT SHAPERS

BİLGİÇ H. H., CONKER Ç., YAVUZ H., YAPICI A.

2. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, Kocaeli, Turkey, 12 - 13 May 2017, vol.1, pp.745

XXVIII. Introducing toroid cans for canning industry for energy savings and better quality products

ERDOĞDU F., TOKUR B., AKSUN E. T., Tümerkan T., YAVUZ H.

30th EFFoST International Conference, 28 - 30 November 2016

- XXIX. **PROCESSING EFFECTS OF NEWLY DESIGNED TOROIDAL CANS ON TEXTURE AND COLOR QUALITY OF CANNED TUNA**
Tokur B., ERDOĞDU F., AKSUN E. T., TÜMERKAN T., YAVUZ H.
46th WEFTA CONFERENCE, Split, Croatia, 12 - 14 October 2016, pp.145
- XXX. **PROCESSING EFFECTS OF NEWLY DESIGNED TOROIDAL CANS ON TEXTURE AND COLOR QUALITY OF CANNED TUNA**
Tokur B., ERDOĞDU F., AKSUN E. T., TÜMERKAN T., YAVUZ H.
46th WEFTA CONFERENCE, Split, Croatia, 12 - 14 October 2016, pp.145
- XXXI. **A NEW INDUSTRIAL DESIGN FOR THE PRODUCTION OF CANNED TUNA: EFFECTS ON LIPID QUALITY AFTER PROCESSING**
Tokur B., ERDOĞDU F., AKSUN E. T., TÜMERKAN T., YAVUZ H.
46th WEFTA CONFERENCE, Split, Croatia, 12 - 14 October 2016, pp.59
- XXXII. **Control Techniques for Oscillating Wave Energy Converter**
BURGAÇ A., YAVUZ H.
RENEC 2016, 6. Uluslararası 100 Yenilenebilir Enerji Konferansı, 26 - 28 May 2016, vol.1
- XXXIII. **Control techniques for oscillating wave energy converters**
BURGAÇ A., YAVUZ H.
IRENEC 2016, 6. Uluslararası %100 Yenilenebilir Enerji Konferansı, İstanbul, Turkey, 26 - 28 May 2016
- XXXIV. **Investigation of the effect of the plasma actuators vertically placed on the spanwise of NACA0015 airfoil**
AKBIYIK H., YAVUZ H., AKANSU Y. E.
IEEEES, 8th International Exergy, Energy and Environment Symposium, Antalya, Turkey, 1 - 04 May 2016, pp.1-5
- XXXV. **Elektrikli Araç Uygulamaları için KompozitMalzeme ile Hafif Şase Tasarımı veGeliştirilmesi**
ÖZARSLAN H., YAVUZ H., DARICIK F.
International Conference onMaterial Science and Technology inCappadocia, 6 - 08 April 2016
- XXXVI. **A New Fuzzy Logic Controller Approach for Stabilization Control of Double Inverted Pendulum**
BİLGİÇ H. H., CONKER Ç., YAVUZ H.
International Conference on Natural Science and Engineering (ICNASE'16), Kilis, Turkey, 19 - 20 March 2016, pp.2899-2908
- XXXVII. **Effect of plasma actuator and splitter plate on drag coefficient of a circular cylinder**
AKBIYIK H., Akansu Y. E., YAVUZ H., Bay A. E.
10th Anniversary International Conference on Experimental Fluid Mechanics, Prague, Czech Republic, 17 - 20 November 2015, vol.114
- XXXVIII. **Dynamic Simulation of Automobile Crank Shaft**
Uluocak İ., Yavuz H., Özarslan H., Burgaç A., Akbiyık H., Conker Ç.
International Conference and Exhibition on Automobile Engineering, Valencia, Spain, 1 - 02 September 2015, vol.4, pp.38
- XXXIX. **Esnek Sistemlerin Artık Titreşim Kontrolünde Konvansiyonel Negatif Girdi Şekillendirme Teknikleri ve Gürbzlüklerinin Kıyaslanması**
CONKER Ç., BİLGİÇ H. H., YAVUZ H.
Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, vol.1, pp.1-5
- XL. **Sarkaç Tipi Bir Tepe Vincinin Kontrolüne Bulanık Yaklaşım**
BİLGİÇ H. H., CONKER Ç., YAVUZ H., Şen M. A.
Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Turkey, 14 - 17 June 2015, vol.1, pp.1-7
- XLI. **Use of toroid cans to produce canned tuna with better quality**
ERDOĞDU F., KARAKAYA B., YAVUZ H., AKSUN E. T., TİMUÇİN T.
ICEF12, 14 - 18 June 2015
- XLII. **Paletli Hidrolik Pompalarda Kondüsyon İzleme ve Performans İyileştirme**
Türedi A. T., YAVUZ H., BİRCAN D. A.
VII. Ulusal Hidrolik Pnömatik Kongresi ve Sergisi, Eskişehir, Turkey, 22 - 25 October 2014, pp.68-74

- XLIII. **Geniřletilmiř Kontrol Aralıklı Manyetik Retarder**
ULUOCAK İ., CONKER Ç., YAVUZ H., AYDIN K.
OTEKON, Bursa, Turkey, 26 - 27 May 2014, pp.217-218
- XLIV. **Geniřletilmiř Kontrol Aralıklı Manyetik Retarder**
ULUOCAK İ., CONKER Ç., YAVUZ H., AYDIN K.
OTEKON, Bursa, Turkey, 26 - 27 May 2014, pp.217-218
- XLV. **Comparison of Robust Input Shapers for Elimination of Residual Vibrations**
Conker C., YAVUZ H., KAPUCU S., Baltacıoglu M. K., Arat H. T., Burgac A.
2nd International Conference on Mechanical Design and Power Engineering (ICMDPE 2013), Beijing, China, 29 - 30 November 2013, pp.997-998
- XLVI. **Performance characteristics of a diesel engine fueled with trio-biodiesel blends**
ÖZCANLI M., SERİN H., YAVUZ H., AYDIN K., TOSUN E.
European Biotechnology Congress, Bratislava, Slovakia, 16 - 18 May 2013, vol.24
- XLVII. **Control application and performance analysis of wave energy converters**
YAVUZ H., SERİN H., Conker C., AYDIN K., ULUOCAK İ.
European Biotechnology Congress, Bratislava, Slovakia, 16 - 18 May 2013, vol.24
- XLVIII. **Functional design of a friction stir welding robot**
YAVUZ H., ÖZDEMİR U.
Int. Conf. On Responsive Manufacturing, Gaziantep, Turkey, 26 June 2002 - 28 June 1999, vol.1, pp.594-601
- XLIX. **Conceptual design and modelling of a domestic robot**
YAVUZ H., Bradshaw A.
CACD'99, Proc. of the Computer Aided Conceptual Design, Lancaster, United Kingdom, 3 - 08 May 1999, vol.1, pp.15-35
- L. **Conceptual design and development of a navigation system for a mobile robot**
YAVUZ H., Chandler A., Bradshaw A., Seward D.
CACD'99, Proc. of the Computer Aided Conceptual Design, Lancaster, United Kingdom, 3 - 08 May 1999, vol.1, pp.65-85
- LI. **Sensor and navigation system design for a mobile robot application**
YAVUZ H., Bradshaw A.
EURAL'98, Proc. of European Advanced Robotics System Development on Mobile Robotics, Leiria, Portugal, 6 - 12 September 1998, vol.1, pp.91-98
- LII. **Tarımda bir yenilik daha Hassas Tarım Teknięi Precision Farming**
YAVUZ H., Bradshaw A., DOĞANTAN Z. S.
UMTS'99 – Ulusal Makina Teorisi Sempozyumu, Gaziantep, Turkey, 7 - 10 September 1999, vol.1, pp.391-397
- LIII. **Mekatronik teknięi ve mobil robot tasarımı**
YAVUZ H., Bradshaw A., DOĞANTAN Z. S.
UMTS'99, Gaziantep, Turkey, 7 - 10 September 1999, vol.1, pp.323-332
- LIV. **Operatörsüz iř makinasına hareket kontrol ve kumanda sistemi tasarımı**
YAVUZ H., Bradshaw A., DOĞANTAN Z. S.
MAMKON'97, İstanbul, Turkey, 4 - 06 June 1997, vol.1, pp.489-495

Supported Projects

YAVUZ H., BURGAÇ A., AKBIYIK H., Project Supported by Higher Education Institutions, Bir dalga enerjisi konvertörü modelinin enerji üretimi ve kontrol uygulamasının incelenmesi, 2018 - 2019

YAVUZ H., Project Supported by Higher Education Institutions, An Enhanced Control Technique for the Elimination of Residual Vibrations in FlexibleJoint Manipulators, 2016 - 2017

YAVUZ H., AKBIYIK H., BURGAÇ A., Project Supported by Higher Education Institutions, Plazma Aktüatör ve Ayırıcı Plaka Kullanılarak Dairesel Silindirin Hücum Açısının Sürüklenme Katsayısı Üzerine Etkisinin İncelenmesi, 2016 - 2016

YAVUZ H., ULUOCAK İ., Project Supported by Higher Education Institutions, Ağır Araçlarda Kullanılan Manyetik

Metrics

Publication: 97

Citation (WoS): 40

Citation (Scopus): 128

H-Index (WoS): 3

H-Index (Scopus): 6

Congress and Symposium Activities

3rd Renewable Energy Sources - Research and Business RESRB 2018 conference, Invited Speaker, Brussels, Belgium, 2018

Non Academic Experience

Mustafa Kemal Üniversitesi, Doç. Dr.

Mustafa Kemal Üniversitesi, Yrd. Doç. Dr.

University of Lancaster, UK., PostDoc

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