

Asst. Prof. KERİM DENİZ KAYA

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-2100-2019

ScopusID: 57193026118

Yoksis Researcher ID: 174920

Education Information

2015 - 2023	Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Turkey
2008 - 2015	Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Turkey
2003 - 2008	Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Turkey

Foreign Languages

English, C1 Advanced

Dissertations

2015	Design and control of a compliant rotary actuator, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Postgraduate
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Research Areas

Control and System Engineering, Analysis and Synthesis Methods, Simulation, Modelling and Identification, Control of Biological Systems, Distributed Control Systems, Controllers, Nonlinear Systems, Status Observers and Estimation, Measurement and Control of Nonelectric Variables, Measurement and Control of Electric and Magnetic Variables, Industrial automation, Actuating and Final Control Devices, General System Theory, Checker, Communication Control Systems, Stability, Discrete Time Systems and Computer Control, Control Systems and Instrumentation, Mathematical Techniques, Optimal Control, System Diagnostics, Adaptive Systems, Time Varying Systems, Robotics and Mechatronics Systems, Smart Factors, Field and Service Robots, Computer Vision, Human and Robot Interaction, Humanoid Robots, Mechatronic Systems, Micro and Nano Robots, Route and Motion Planning, Signal Processing, Signal Processing for Sensor Sequences, Multi-mode Signal Processing, Multimedia, Image and Video Processing, Signal Processing for Communication, Pattern Recognition and Analysis, Signal Processing Theory and Methods, Artificial Intelligence, Computer Learning and Pattern Recognition, Fuzzy Sets and Systems, Neural Networks, MEMS, Semiconducting Materials and Devices, Mechanical Engineering, Energy, Fluid Machinery, Alternative Energy Resources, Solar energy, Construction and Manufacturing, Machine Elements, Machine Design, Computer Aided Design and Manufacturing, Material, Machine Theory and Dynamics, Machine Dynamics, System Dynamics and Control, Mechanisms, Vehicle Systems Dynamics, Robotics, Mechatronics, Modeling and Simulation of Dynamic Systems, Mechanical, Solid Mechanics, Finite Element Methods, Naval Architecture and Marine Engineering, Ship Hydromechanics, Ship Machines, Engineering and Technology

Academic Titles / Tasks

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Determination of operating parameters of an AUV following a preplanned trajectory using hydrodynamic analysis data**
KAYA K. D., GÖREN A., YILMAZ S., BAYRAMOĞLU K.
OCEAN ENGINEERING, vol.217, 2020 (SCI-Expanded)
- II. **Numerical investigation of valve lifts effects on performance and emissions in diesel engine**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.18, pp.287-303, 2019 (SCI-Expanded)
- III. **Adaptive state feedback controller design for a rotary series elastic actuator**
KAYA K. D., Cetin L.
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.39, no.1, pp.61-74, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **Numerical and Theoretical Thermal Analysis of Ship Provision Refrigeration System**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
JOURNAL OF ETA MARITIME SCIENCE, vol.7, no.2, pp.137-149, 2019 (ESCI)
- II. **3D Printed Solar Catamaran Model Design and Embedded Sensing System Application**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
International journal of 3D Printing Technologies and Digital Industry, vol.2, no.3, pp.12-21, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Development of Modular Buoy for Marine Weather Data Collection**
Kaya K. D., Yılmaz S., Halat B., Maden Ö. F.
2nd INTERNATIONAL SYMPOSIUM SERIES ON GRADUATE RESEARCHES, İzmir, Turkey, 14 - 15 December 2023
- II. **Comparative Research of Nonlinear Decoupled Tracking Controller Design for an Open-Frame AUV**
Ceyhun H. E., Deniz Kaya K. D., Bayramoğlu K., GÖREN A.
27th International Conference on Methods and Models in Automation and Robotics, MMAR 2023, Virtual, Online, Poland, 22 - 25 August 2023, pp.145-150
- III. **A STUDY ON THERMAL BEHAVIOUR OF A 3D PRINTER AND EXTRUDED MATERIAL WITH THERMAL IMAGING METHOD**
Arhan S., YILMAZ S., KAYA K. D., BAYRAMOĞLU K.
5th INTERNATIONAL CONGRESS ON 3D PRINTING (ADDITIVE MANUFACTURING) TECHNOLOGIES AND DIGITAL INDUSTRY, Antalya, Turkey, 3 - 06 June 2021
- IV. **CFD Analysis of Stern Tube Lubrication System Under Changing Shaft Speed and Oil Types**
BAYRAMOĞLU K., KAYA K. D., YILMAZ S.
III. GLOBAL CONFERENCE ON INNOVATION IN MARINE TECHNOLOGY AND THE FUTURE OF MARITIME TRANSPORTATION, 18 - 19 April 2019
- V. **Determination Of Working Parameters Of 3d Printers On Various Operation Modes With Different Sensing Systems**
KAYA K. D., YILMAZ S., BAYRAMOĞLU K., GÖKSU B.
4th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2019, Antalya, Turkey, 11 - 14 April 2019

- VI. **Utilization of 3d Printing Technologies in Marine Applications**
BAYRAMOĞLU K., KAYA K. D., YILMAZ S., GÖKSU B.
4th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2019, Antalya, Turkey, 11 - 14 April 2019
- VII. **AN IMPROVED SYSTEM DESIGN FOR SOLAR BOATS**
Erginer K. E., Gülmez Y., Konur O., Fikir E., Göksu B., Kaya K. D., Pamık M., Yüksel O., Korkmaz S. A.
7th Global Conference on Global Warming, İzmir, Turkey, 24 - 28 June 2018
- VIII. **A numerical investigation of valve lift effects on marine diesel engine and emission prediction**
BAYRAMOĞLU K., KAYA K. D., YILMAZ S., BAYRAKTAR M., GÖKSU B.
7th Global Conference on Global Warming (GCGW-2018), İzmir, Turkey, 24 - 28 June 2018
- IX. **Numerical Analysis of Diesel Engine Performance and Exhaust Emissions with Diesel-Ethanol Fuel Blends**
Kaya K. D., Bayramoğlu K., Yılmaz S., Nuran M.
7th Global Conference on global warming, İzmir, Turkey, 27 - 28 June 2018
- X. **Design and Implementation of A Solar Catamaran Model with 3D Printer and Sensor Applications**
KAYA K. D., BAYRAMOĞLU K., YILMAZ S.
3rd International congress on 3D Printing Technologies and Digital Industry, 21 April 2018
- XI. **Dizel Motorlarda Kullanılan Farklı Yakıt Karışımları için Emisyon Tahmini**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
II. Uluslararası Şehir, Çevre, Sağlık Kongresi, 19 - 20 April 2018
- XII. **Linear Load Transfer Based Horizontal Motion Control of a ROV**
KAYA K. D., GÖREN A.
WELMO 2017, İzmir, Turkey, 4 - 05 May 2017, pp.102-105
- XIII. **Yarı Otonom Bir Sualtı Robotu Tasarımı**
GÖREN A., KAYA K. D.
Otomatik Kontrol Türk Milli Komitesi Ulusal Toplantısı, Denizli, Turkey, 10 - 12 September 2015
- XIV. **Establishing Physics Laboratory with Electrical and Mechanical Equipment for Maritime Education**
FİKİR E., YILMAZ S., KAYA K. D., MICHEAL S.
First International Maritime and Transportation Symposium, Girne, Cyprus (Kkct), 6 - 07 March 2015

Supported Projects

2019 - 2019	Dynamic Motion Control of an Underwater Robot for Observation and Research in Shallow Waters, TUBITAK Project
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Metrics

Publication: 19
Citation (WoS): 37
Citation (Scopus): 33
H-Index (WoS): 3
H-Index (Scopus): 3