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Learning Knowledge

Doctorate 2014 - 2022	Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey
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Postgraduate 2012 - 2014	Cukurova University, Makina Mühendisliği, Makine Mühendisliği, Turkey
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Undergraduate 2005 - 2011	Gaziantep University, Faculty Of Engineering, Makine Mühendisliği, Turkey
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Dissertations

Doctorate, DESIGN AND CONTROL OF A NOVEL EDDY CURRENT DYNAMOMETER, Cukurova University, Mühendislik Fakültesi, 2022

Postgraduate, MAGNETIC RETARDER WITH EXTENDED CONTROL SYSTEM, Cukurova University, Makina Mühendisliği, Makine Mühendisliği, 2014

Academic Titles / Tasks

Research Assistant 2011 - Continues	Cukurova University, Ceyhan Mühendislik Fakültesi, Makine Mühendisliği
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Supported Projects

- YAVUZ H., ULUOCAK İ., Project Supported by Higher Education Institutions, Ağır Araçlarda Kullanılan Manyetik Retarderlarda Kontrol Sisteminin Geliştirilmesi ve Etkisinin Deneysel Olarak İncelenmesi, 2013 - 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- 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)
- 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)

3. **Artificial intelligence techniques for the vibration, noise, and emission characteristics of a hydrogen-enriched diesel engine**

Yildirim S., TOSUN E., Calik A., ULUOCAK İ., AVŞAR E.

ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.41, no.18, pp.2194-2206, 2019 (SCI-Expanded)

Articles Published in Other Journals

1. **Tarım Makinaları ve Traktörlerde Arızalanma Verilerinin İşletmecilik Kararlarında Kullanılma Esasları**

SAY S. M., ŞEHRİ M., ERDOĞAN Y., ULUOCAK İ.

Akademia Mühendislik ve Fen Bilimleri Dergisi/Academia Journal of Engineering and Applied Sciences, vol.1, pp.246-255, 2017 (Peer-Reviewed Journal)

2. **Effect of Rotor Material on Eddy Current Brakes**

ULUOCAK İ.

EUROPEAN MECHANICAL SCIENCE, vol.5, pp.246-255, 2017 (Peer-Reviewed Journal)

3. **Dynamic simulation of automobile crankshaft**

ULUOCAK İ.

Advances in Automobile Engineering, vol.5, no.143, pp.1, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

1. **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

2. **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

3. **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

4. **Effects of Membership Function Type and Number of Membership Functions on ANFIS Predictions of Diesel Engine Vibration**

TOSUN E., AYDIN K., ULUOCAK İ.

International Academic Conference on Engineering, Transport, IT and Artificial Intelligence (IAC-ETITAI) 2019, Budapeşte, Hungary, 23 - 24 August 2019, pp.187-193

5. **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

6. **Tarım Makinaları ve Traktörlerde Arızalanma Verilerinin İşletmecilik Kararlarında Kullanılma Esasları**

SAY S. M., ŞEHRİ M., ERDOĞAN Y., ULUOCAK İ.

3rd ASM International Congress Of Agriculture And Environment, Antalya, Turkey, 16 - 18 November 2017, vol.2, pp.73

7. **Simulation of Eddy Current Brake Using Matlab/SimulinkInterface**

Uluocak İ.

2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 - 27 October 2017, no.221, pp.460

8. **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

9. **Dynamic Simulation of Automobile Crank Shaft**

Uluocak İ., Yavuz H., Özarıslan H., Burgaç A., Akbıyık H., Conker Ç.

International Conference and Exhibition on Automobile Engineering, Valencia, Spain, 1 - 02 September 2015, vol.4, pp.38

10. **Geniřletilmiş Kontrol Aralıklı Manyetik Retarder**

ULUOCAK İ., CONKER Ç., YAVUZ H., AYDIN K.

OTEKON, Bursa, Turkey, 26 - 27 May 2014, pp.217-218

11. **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

Research Areas

Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Modeling and Simulation of Dynamic Systems, Engineering and Technology