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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2019 - 2023

Undergraduate, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, Turkey 2014 - 2018

Associate Degree, Ankara University, Sağlık Hizmetleri Meslek Yüksekokulu, Anestezi, Turkey 2011 - 2013

Dissertations

Doctorate, Üretken çekışmeli ağlar ile fonksiyonel 3B tasarım varyantları üretilmesi, Gazi University, Fen Bilimleri Enstitüsü, 2023

Research Areas

Artificial Intelligence, Computer Learning and Pattern Recognition, Fuzzy Sets and Systems, Neural Networks, Machine Design, Computer Aided Design and Manufacturing

Academic Titles / Tasks

Research Assistant, Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği, 2020 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Generative Deep Learning Approach for Improving the Mechanical Performance of Structural Components**
YÜKSEL N., BÖRKLÜ H. R.
Applied Sciences (Switzerland), vol.14, no.9, 2024 (SCI-Expanded)
- II. **Deep learning-enabled design for tailored mechanical properties of SLM-manufactured metallic lattice structures**
EREN O., YÜKSEL N., BÖRKLÜ H. R., SEZER H. K., CANYURT O. E.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.130, 2024 (SCI-Expanded)
- III. **Mechanical properties of additively manufactured lattice structures designed by deep learning**
YÜKSEL N., EREN O., BÖRKLÜ H. R., SEZER H. K.
THIN-WALLED STRUCTURES, vol.196, 2024 (SCI-Expanded)

- IV. **Review of artificial intelligence applications in engineering design perspective**
YÜKSEL N., BÖRKLÜ H. R., SEZER H. K., CANYURT O. E.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, 2023 (SCI-Expanded)
- V. **A practical application for machine design education**
BÖRKLÜ H. R., Yuksel N., ÇAVDAR K., SEZER H. K.
JOURNAL OF ADVANCED MECHANICAL DESIGN SYSTEMS AND MANUFACTURING, vol.12, no.2, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **2D LATTICE GENERATION BY COMPUTATIONAL DESIGN METHOD**
YÜKSEL N., Borklu H. R.
International Journal of 3D Printing Technologies and Digital Industry, vol.7, no.2, pp.198-203, 2023 (Peer-Reviewed Journal)
- II. **NATURE-INSPIRED DESIGN IDEA GENERATION WITH GENERATIVE ADVERSARIAL NETWORKS**
Yüksel N.
International Journal of 3D Printing Technologies and Digital Industry, vol.7, no.1, pp.47-54, 2023 (Peer-Reviewed Journal)
- III. **Yapay Zeka Destekli Kavramsal Tasarım: Tekerlekli Sandalye Tasarım Seçenekleri Değerlendirmede Bulanık Mantık Kullanımı**
YÜKSEL N., BÖRKLÜ H. R.
Gazi Mühendislik Bilimleri Dergisi, vol.7, no.3, pp.309-319, 2021 (Peer-Reviewed Journal)
- IV. **Determination of Stress Concentration Factor (Kt) for a Crankshaft under Bending Loading: An Artificial Neural Networks Approach**
Toktaş İ., Özkan M. T., Erdemir F., Yuksel N.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.23, no.3, pp.813-819, 2020 (ESCI)
- V. **Değer Mühendisliği Uygulaması: Köfte Yapma Makinası Tasarımı**
Yüksel N., Börklü H. R., Erden O.
Gazi Mühendislik Bilimleri Dergisi, vol.6, no.2, pp.95-104, 2020 (Peer-Reviewed Journal)
- VI. **An Application of Value Engineering: Meatball Making Machine Design**
Yüksel N.
Gazi Mühendislik Bilimleri Dergisi, vol.6, no.2, pp.95-104, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **2D Lattice Generation by Computational Design Method**
YÜKSEL N., BÖRKLÜ H. R.
6 th INTERNATIONAL CONGRESS ON 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY – 3D-PTC2022, Bucharest, Romania, 22 November 2022
- II. **Nature-Inspired Design Idea Generation with Generative Adversarial Networks**
YÜKSEL N., BÖRKLÜ H. R.
6 th INTERNATIONAL CONGRESS ON 3D PRINTING TECHNOLOGIES AND DIGITAL INDUSTRY – 3D-PTC2022, Bucharest, Romania, 22 November 2022
- III. **Yeni bir köfte yapma makinasının kavramsaltasarımı**
Yüksel N.
The Proceedings of International Symposium on Industry 4.0 and Applications, Karabük, Turkey, 12 - 14 October 2017, pp.248-255

Supported Projects

Yüksel N., Börklü H. R., TUBITAK Project, Derin Öğrenme Kullanılarak Fonksiyonel Tasarım Varyantları Geliştirilmesi, 2022 - 2024

BÖRKLÜ H. R., YÜKSEL N., ÇUBUK E. N., GÜNEŞ E., SAYRACI S., ÇETİN D., KUMBASAR E., Project Supported by Higher Education Institutions, Model Uydularda Görev Yüğü Taşıma ve Kontrollü İniş Sisteminin Geliştirilmesi, 2021 - 2022

Scientific Refereeing

POLİTEKNİK DERGİSİ, National Scientific Refreed Journal, January 2020

Metrics

Publication: 15

Citation (WoS): 12

Citation (Scopus): 5

H-Index (WoS): 2

H-Index (Scopus): 1

Non Academic Experience

SAĞLIK BAKANLIĞI