

Lect. PhD CAN BARIŞ TOPRAK

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International Researcher IDs

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Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, Turkey 2018 - 2024

Postgraduate, Beijing University of Science and Technology, School of Automation, Control Engineering, China 2014 - 2016

Undergraduate, Kocaeli University, Mühendislik Fakültesi, Mekatronik Mühendisliği, Turkey 2010 - 2014

Foreign Languages

English, C1 Advanced

Chinese, A2 Elementary

Research Areas

Non-traditional manufacturing methods, Mechatronics, Finite Element Methods

Academic Titles / Tasks

Expert, Gazi University, Araştırma ve Uygulama Merkezleri, Eklemeli İmalat Teknolojileri Araştırma ve Uygulama Merkezi, 2019 - Continues

Lecturer, Gazi University, Mühendislik Fakültesi, Makina Mühendisliği, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optimal process parameter determination in selective laser melting via machine learning-guided sequential quadratic programming**
Toprak C. B., Doğruer C. U.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART C: JOURNAL OF MECHANICAL ENGINEERING SCIENCE, no.1, pp.1-16, 2024 (SCI-Expanded)
- II. **Finite Element Analysis and Machine Learning in the Loop Additive Manufacturing Process Parameter Optimization to Acquire the Desired Dynamics of Manufactured Parts**
Toprak C. B., Doğruer C. U.
3D Printing and Additive Manufacturing, vol.0, no.0, 2024 (SCI-Expanded)
- III. **A Critical Review of Machine Learning Methods Used in Metal Powder Bed Fusion Process to Predict**

Part Properties

Toprak C. B., Dođruer C. U.

INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING, vol.25, no.10, pp.1-23, 2023 (SCI-Expanded)

IV. Neuro-fuzzy modelling methods for relative density prediction of stainless steel 316L metal parts produced by additive manufacturing technique

Toprak C. B., Dogruer C. U.

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, vol.37, pp.1-12, 2022 (SCI-Expanded)

Articles Published in Other Journals

I. Advancing modal analysis of mechanical linkages via differential algebraic equations

DOĐRUER C. U., TOPRAK C. B., YILDIRIM B.

JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)

II. Optimizing Truss Dynamics: A Multi-Objective Approach to Modify Natural Frequencies and Mode Shapes with Geometric Constraints

Toprak C. B., Dođruer C. U., Yıldırım B.

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, pp.354-365, 2024 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Development of a Human Tracking Indoor Mobile Robot Platform

KARAKAYA S., Kucukyildiz G., Toprak C. B., Ocak H.

16th International Conference on Mechatronics (Mechatronika), Brno, Czech Republic, 3 - 05 December 2014, pp.683-687

Metrics

Publication: 7

Citation (WoS): 9

Citation (Scopus): 14

H-Index (WoS): 2

H-Index (Scopus): 3