Lect. PhD CAN BARIŞ TOPRAK

Personal Information

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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 programing**
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., Doğruer 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**
DOĞRUER 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., Doğruer C. U., Yıldırım B.
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.12, pp.354-365, 2024 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

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

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Citation (Scopus): 16
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H-Index (Scopus): 3