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International Researcher IDs

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Publons / Web Of Science ResearcherID: GXW-3334-2022

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Research Areas

Machining Methods, Machine Dynamics, System Dynamics and Control, Mechanical Vibrations

Academic Titles / Tasks

- I. Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2023 - Continues
- II. Researcher, University of Bath, Mechanical Engineering, 2022 - 2023

Courses

- I. Analytical Methods in Engineering, Doctorate, 2023 - 2024
- II. Analytical Methods in Engineering, Postgraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Analysis of virtual inerter-based passive absorber for active chatter control**
Doğan H., Özsoy M., Ozturk E., Sims N., Wagg D.
JOURNAL OF SOUND AND VIBRATION, vol.578, no.118359, 2024 (SCI-Expanded)
- II. **Using machine learning for cutting tool condition monitoring and prediction during machining of tungsten**
Omole S., Doğan H., Lunt A. J. G., Kirk S., Shokrani A.
INTERNATIONAL JOURNAL OF COMPUTER INTEGRATED MANUFACTURING, vol.1, no.1, pp.1-25, 2023 (SCI-Expanded)
- III. **Implementation of Inerter-Based Dynamic Vibration Absorber for Chatter Suppression**
Doğan H., Sims N. D., Wagg D. J.
JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING, TRANSACTIONS OF THE ASME, vol.145, pp.1, 2023 (SCI-Expanded)

- IV. **Design, testing and analysis of a pivoted-bar inerter device used as a vibration absorber**
Dogan H., Sims N. D., Wagg D. J.
Mechanical Systems and Signal Processing, vol.171, 2022 (SCI-Expanded)
- V. **Effect of joint flexibility on vibration characteristics of a composite box manipulator**
MALGACA L., DOĞAN H., AKDAĞ M., YAVUZ Ş., UYAR M. B., Bidikli B.
Composite Structures, vol.183, no.1, pp.271-277, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **TOWARDS SUSTAINABLE AND INTELLIGENT MACHINING: ENERGY FOOTPRINT AND TOOL CONDITION MONITORING FOR MEDIA-ASSISTED PROCESSES**
Dogan H., Jones L., Hall S., Shokrani A.
Journal of Machine Engineering, vol.23, no.2, pp.16-40, 2023 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of chatter detection with sensor-integrated tool holders based on strain measurement**
DOĞAN H., Shokrani A.
19th CIRP Conference on Modeling of Machining Operations, CMMO 2023, Karlsruhe, Germany, 31 May - 02 June 2023, vol.117, pp.157-162
- II. **Active Chatter Suppression Through Virtual Inerter-Based Passive Absorber Control**
Ozsoy M., Doğan H., Ozturk E., Wagg D. J., Sims N. D.
Machining Innovations Conference for Aerospace Industry (MIC) 2022, Hannover, Germany, 30 November 2022 - 01 December 2023, vol.1, pp.1
- III. **Design and implementation of TID for vibration suppression**
Dogan H., Sims N., Wagg D.
2020 International Conference on Noise and Vibration Engineering, ISMA 2020 and 2020 International Conference on Uncertainty in Structural Dynamics, USD 2020, Leuven, Belgium, 7 - 09 September 2020, pp.3087-3096
- IV. **The effects of parasitic mass on the performance of inerter-based dynamic vibration absorbers**
Dogan H., Sims N. D., Wagg D. J.
11th International Conference on Structural Dynamics, EURO DYN 2020, Virtual, Athens, Greece, 23 - 26 November 2020, vol.1, pp.1545-1555
- V. **Investigation of the inerter-based dynamic vibration absorber for machining chatter suppression**
Dogan H., Sims N. D., Wagg D. J.
13th International Conference on Recent Advances in Structural Dynamics, RASD 2019, Lyon, France, 15 - 17 April 2019, vol.1264

Metrics

Publication: 11
Citation (Scopus): 21
H-Index (Scopus): 3

Coaching Duties
