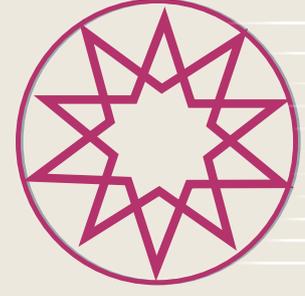


ISSN 2717-7203



JOURNAL OF ADVANCES IN MANUFACTURING ENGINEERING



Volume 3

Number 2

Year 2022 - December

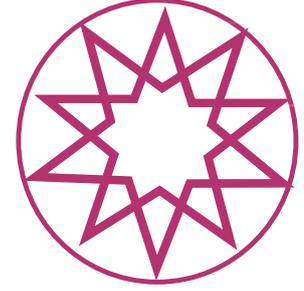
**YTÜ
PRESS**

www.jame.yildiz.edu.tr

ISSN 2717-7203



JOURNAL OF ADVANCES IN MANUFACTURING ENGINEERING



Volume 3 Number 2 Year 2022 - December

EDITOR-IN-CHIEF

Mihrigül ALTAN

Department of Mechanical Engineering, Yıldız Technical University, Istanbul, Turkey

ASSOCIATE EDITORS

Orhan ÇAKIR

Department of Mechanical Engineering, Yıldız Technical University, Istanbul, Turkey

Meltem ERYILDIZ

Department of Mechanical Engineering, Beykent University, Istanbul, Turkey

LANGUAGE EDITOR

Büşra YILDIZ

School of Foreign Languages, Yıldız Technical University, Istanbul, Turkey

EDITORIAL BOARD

Alisson R. MACHADO

Department of Mechanical Engineering, Pontifícia Universidade Católica do Paraná, Curitiba, Brasil

Alper UYSAL

Department of Mechanical Engineering, Yıldız Technical University, Istanbul, Turkey

Bilgin KAFTANOĞLU

Department of Manufacturing Engineering, Atilim University, Ankara, Turkey

Biswanath MONDAL

Department of Mechanical Engineering, Central Mechanical Engineering Research Institute, Durgapur, India

Cemal ÇAKIR

Department of Construction and Manufacturing, Uludag University, Bursa, Turkey

Dan ZHANG

Department of Mechanical Engineering, York University, Ontario, Canada

Erhan ALTAN

Department of Mechanical Engineering, Yıldız Technical University, Istanbul, Turkey

Erhan BUDAK

Faculty of Engineering and Natural Sciences, Sabanci University, Istanbul, Turkey

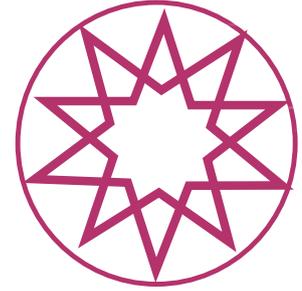
Hang Tuah BAHARUDIN

Department of Mechanical and Manufacturing Engineering, University Putra Malaysia, Malaysia

ISSN 2717-7203



JOURNAL OF ADVANCES IN MANUFACTURING ENGINEERING



Volume 3 Number 2 Year 2022 - December

I.S. JAWAHIR

Department of Mechanical Engineering, University of Kentucky College of Engineering, Lexington, USA

Metin TANOĞLU

Department of Mechanical Engineering, Izmir Technology Institute, Izmir, Turkey

Mohammadjafar HADAD

Department of Mechanical Engineering, University of Tehran, Iran

Muammer KOÇ

College of Science and Engineering, Hamad bin Khalifa University, Qatar

Murat KIYAK

Department of Mechanical Engineering, Yildiz Technical University, Istanbul, Turkey

Murat YAZICI

Department of Automotive Engineering, Bursa Uludag University, Bursa, Turkey

Navneet KHANNA

Institute of Infrastructure Technology Research and Management (IITRAM), India

Taylan ALTAN

Department of Integrated System Engineering, Ohio State University, Columbus, Ohio, USA

Tim OSSWALD

Department of Mechanical Engineering, University of Wisconsin Madison, Madison, USA

Tolga MERT

Department of Mechanical Engineering, Yildiz Technical University, Istanbul, Turkey

Yusuf KAYNAK

Department of Mechanical Engineering, Marmara University, Istanbul, Turkey

Abstracting and Indexing: Bielefeld Academic Search Engine (BASE), ResearchBible, Directory of Research Journals Indexing (DRJI)

Journal Description: The journal is supported by Yildiz Technical University officially, and is a blind peer-reviewed free open-access journal, published bimonthly (June-December).

Publisher: Yildiz Technical University

Editor-in-Chief: Prof. Mihrigul Altan

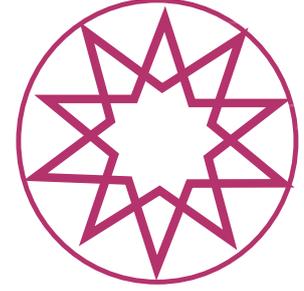
Language of Publication: English

Frequency: 2 Issues

Publication Type: Online e-version

Publisher: Kare Yayıncılık

JOURNAL OF ADVANCES IN MANUFACTURING ENGINEERING



CONTENTS

Research Articles

- 33** Process optimization for hot forging of difficult parts by computer experiments and response surface analysis
Bariş KABATAŞ, Haydar LİVATYALI, Birgül AŞÇIOĞLU TEMİZTAŞ
- 46** Feasibility studies for an enhanced flat bottom drill tool design considering modal and resonance using finite element methods
Nima ZOGHIPOUR, Yusuf KAYNAK
- ### Review Article
- 64** Cutting tool selection for machining metal matrix composites
Necdet YAKUT