

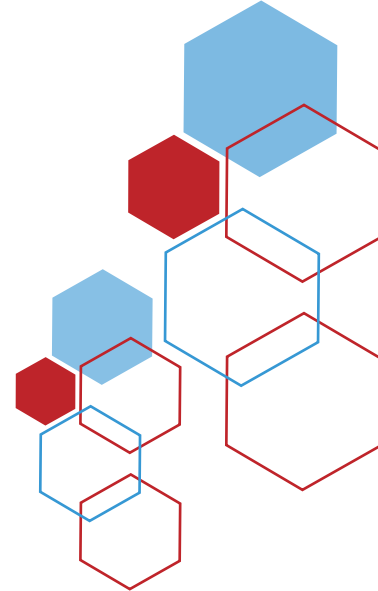
ISSN 2683-345X

**International Journal of Industrial
Engineering and Management**

**International Journal
of Industrial Engineering
and Management**

Vol 12 No 3 (2021)

International Journal of Industrial Engineering and Management



Volume 12 Number 3
ISSN 2217 - 2661 (print)
ISSN 2683 - 345X (online)

Journal homepage: <http://ijemjournal.uns.ac.rs/>

Circulation: 30 copies
Journal is published quarterly

Publisher: **University of Novi Sad,**
Faculty of Technical Sciences,
Department of Industrial Engineering and Management

IJEM is sponsored by Ministry of Education, Science and Technological Development of Republic of Serbia.

EDITORIAL BOARD

Editor-in-Chief

Uglješa Marjanović,
University of Novi Sad, Serbia
ijem@uns.ac.rs

Desk Editor

Slavko Rakić
University of Novi Sad, Serbia
slavkorakic@uns.ac.rs

Website Technical Editor

Miroslav Stefanović
University of Novi Sad, Serbia
mstef@uns.ac.rs

Publishing Editor

Dragana Gojić
University of Novi Sad, Serbia
dragana.gojic@uns.ac.rs

Editorial Board

Ivan Beker, University of Novi Sad, Novi Sad, Serbia
Branislav Borovac, University of Novi Sad, Novi Sad, Serbia
Borut Buchmeister, University of Maribor, Maribor, Slovenia
Jin Chen, Tsinghua University, Beijing, China
Ilija Ćosić, University of Novi Sad, Novi Sad, Serbia
Dubravko Ćulibrk, University of Novi Sad, Novi Sad, Serbia
Franc Ćuš, University of Maribor, Maribor, Slovenia
Milan Delić, University of Novi Sad, Novi Sad, Serbia
Valentina Gečevska, University of Skopje, Skopje, North Macedonia
Nikola Gradojević, Lakehead University, Ontario, Canada
Branislav Jeremić, University of Kragujevac, Kragujevac, Serbia
Branko Katalinić, Viena University of Technology, Viena, Austria
Tomas Kliestik, University of Zilina, Slovakia
Bojan Lalić, University of Novi Sad, Novi Sad, Serbia
Milovan Lazarević, University of Novi Sad, Novi Sad, Serbia
Franco Lombardi, Politecnico di Torino, Torino, Italy
Yoshihiko Nakamura, University of Tokyo, Tokyo, Japan
Gordana Ostojić, University of Novi Sad, Novi Sad, Serbia
Iztok Palčič, University of Maribor, Maribor, Slovenia
Margherita Pero, Politecnico di Milano, Milan, Italy
Enrico Sandrin, University of Padova, Padova, Italy
Chengli Shu, Xi'an Jiaotong University, Xi'an, China
Selver Softic, CAMPUS 02 University of Applied Sciences, Graz, Austria
Dušan Šormaz, Ohio University, Athens, USA
Stevan Stankovski, University of Novi Sad, Novi Sad, Serbia
Miladin Stefanović, University of Kragujevac, Kragujevac, Serbia
Darko Stefanović, University of Novi Sad, Novi Sad, Serbia
Nikola Suzić, University of Padova, Padova, Italy
Ivica Veža, University of Split, Split, Croatia
Henry Zhang, Purdue University, West Lafayette, USA

CIP classification
CIP - Каталогизacija u publikaciji
Народна библиотека Србије, Београд
658.5+005
INTERNATIONAL journal of industrial engineering and management/ Editor-in-chief Uglješa Marjanović. - Vol. 12, no. 3 (2021) - - Novi Sad (Trg Dositeja Obradovića 6): University of Novi Sad, Faculty of Technical Sciences, Department of Industrial Engineering and Management, 2021 - (Novi Sad: Graphic Center GRID). -28 cm

Tromesečno
ISSN 2217-2661 = International Journal of Industrial Engineering and Management
COBISS.SR - ID 176081932

Articles published in this journal are indexed
in: SCOPUS, DOAJ, EBSCO and ProQuest



Printed by FTN Graphic Center GRID, Novi Sad, Serbia

Published by the University of Novi Sad, Faculty of Technical Sciences,
Novi Sad, Serbia.
This is an open access article distributed under the CC BY-NC-ND 4.0
terms and conditions.