

## Leto 2021

### **Izjemen dosežek**

KOVAČIČ, Miha, LEŠER, B., BREZOČNIK, Miran. Modelling and optimization of sulfur addition during 70MnVS4 steelmaking: An industrial case study. *Advances in production engineering & management*, ISSN 1854-6250, June 2021, vol. 16, no. 2, str. 253-261, ilustr., doi: 10.14743/apem2021.2.398. [COBISS.SI-ID 80162307]

### **Zelo kakovostni dosežki**

LERHER, Tone, FICKO, Mirko, PALČIČ, Iztok. Throughput performance analysis of automated vehicle storage and retrieval systems with multiple-tier shuttle vehicles. *Applied mathematical modelling*, ISSN 0307-904X. [Print ed.], Mar. 2021, vol. 91, str. 1004-1022, ilustr., doi: 10.1016/j.apm.2020.10.032. [COBISS.SI-ID 36277251]

DRSTVENŠEK, Igor, ZUPANIČ, Franc, BONČINA, Tonica, BRAJLIH, Tomaž, PAL, Snehashis. Influence of local heat flow variations on geometrical deflections, microstructure, and tensile properties of Ti-6Al-4 V products in powder bed fusion systems. *Journal of manufacturing processes*, ISSN 1526-6125. [Print ed.], May 2021, vol. 65, str. 382-396, doi: 10.1016/j.jmapro.2021.03.054. [COBISS.SI-ID 58758147]

PAL, Snehashis, FINŠGAR, Matjaž, BONČINA, Tonica, LOJEN, Gorazd, BRAJLIH, Tomaž, DRSTVENŠEK, Igor. Effect of surface powder particles and morphologies on corrosion of Ti-6Al-4 V fabricated with different energy densities in selective laser melting. *Materials & design*, ISSN 0264-1275, 1 Dec. 2021, vol. 211, str. 1-17. [COBISS.SI-ID 81539843]

FICKO, Mirko, BEGIĆ-HAJDAREVIĆ, Đerzija, COHODAR HUSIC, Maida, BERUS, Lucijano, ČEKIĆ, Ahmet, KLANČNIK, Simon. Prediction of surface roughness of an abrasive water jet cut using an artificial neural network. *Materials*, ISSN 1996-1944, 5 June 2021, vol. 14, iss. 11, str. 1-16, doi: 10.3390/ma14113108. [COBISS.SI-ID 66209795]

PAL, Snehashis, RAMADANI, Riad, GUBELJAK, Nenad, BONČINA, Tonica, HUDAK, Radovan, DRSTVENŠEK, Igor, BRAJLIH, Tomaž. Effect of the fabricating locations and orientations according to the powder coating direction in Selective Laser Melting on mechanical properties. *Results in physics*, ISSN 2211-3797, July 2021, vol. 26 (104417), str. 1-9, ilustr., doi: 10.1016/j.rinp.2021.104417. [COBISS.SI-ID 94724099]

BRILI, Nika, FICKO, Mirko, KLANČNIK, Simon. Automatic Identification of tool wear based on thermography and a convolutional neural network during the turning process. *Sensors*, ISSN 1424-8220, 9. Mar. 2021, vol. 21, iss. 5, str. 1-17, doi: 10.3390/s21051917. [COBISS.SI-ID 54562307]

BRILI, Nika, FICKO, Mirko, KLANČNIK, Simon. Tool condition monitoring of the cutting capability of a turning tool based on thermography. *Sensors*, ISSN 1424-8220, Oct. 2021, vol. 21, iss. 19, 13 str., doi: 10.3390/s21196687. [COBISS.SI-ID 80136195]

KARNER, Timi, GOTLIH, Janez. Viscoelastic constitutive models and their fractional representatives to capture the time-dependent response of DEAs on sinus excitation. *Smart materials and structures*, ISSN 0964-1726. [Print ed.], Accepted Manuscript online 9 July 2021, str. 1-22. <https://iopscience.iop.org/article/10.1088/1361-665X/ac1305>, doi: 10.1088/1361-665X/ac1305. [COBISS.SI-ID 69936643]

### **Samostojni znanstveni sestavek ali poglavje v monografski publikaciji**

PALČIČ, Iztok, BERUS, Lucijano, FICKO, Mirko, KLANČNIK, Simon. Design of facility layout for Industry 4.0. V: KHOSROWPOUR, Mehdi (ur.). *Research anthology on cross-industry challenges of Industry 4.0*. Hershey: IGI Global. 2021, str. 219-244, doi: 10.4018/978-1-7998-8548-1.ch012. [COBISS.SI-ID 61692675]

TIČ, Vito, LOVREC, Darko. An embedded online hydraulic fluid CM and RUL-system for Industry 4.0 manufacturing machines. V: KHOSROWPOUR, Mehdi (ur.). *Research anthology on cross-industry challenges of Industry 4.0*. Hershey: IGI Global. 2021, str. 686-708, doi: 10.4018/978-1-7998-8548-1.ch035. [COBISS.SI-ID 61782531]

HERNAVS, Jernej, BERUS, Lucijano, PERŠAK, Tadej, FICKO, Mirko, BREZOČNIK, Miran, KLANČNIK, Simon. Computer vision in manufacturing environment : chapter 6. V: KARABEGOVIĆ, Isak (ur.), BANJANOVIĆ-MEHMEDOVIĆ, Lejla (ur.). *Service robots : advances in research and applications*, (Robotics Research and Technology). New York: Nova Science Publishers. cop. 2021, str. 99-111, ilustr. [COBISS.SI-ID 73248259]

### **Univerzitetni, visokošolski ali višješolski učbenik z recenzijo**

LERHER, Tone. *Skladiščno-komisionirni sistemi*. 1. izd. Maribor: Univerzitetna založba Univerze, 2021. 1 spletni vir (1 datoteka PDF (96 str.)), ilustr. ISBN 978-961-286-519-1. <https://press.um.si/index.php/ump/catalog/book/612>, doi: 10.18690/978-961-286-519-1. [COBISS.SI-ID 79878659]

FICKO, Mirko, BERUS, Lucijano, POTOČNIK, David. *Tehnologija numerično krmiljenih strožnic z gnanimi orodji : univerzitetni učbenik*. 1. izd. Maribor: Univerza v Mariboru, Univerzitetna založba, 2021. 1 spletni vir (1 datoteka PDF (V, 161 str.)). ISBN 978-961-286-520-7, doi: 10.18690/978-961-286-520-7. [COBISS.SI-ID 77892355]

### **Doktorske disertacije**

BRILI, Nika. *Model inteligentnega nadzora obrabe in poškodb rezalnih orodij z uporabo termografije : doktorska disertacija*. Maribor: [N. Brili], 2021. XII, 114 str., ilustr. <https://dk.um.si/lzpisGradiva.php?id=78907>. [COBISS.SI-ID 86333443]