

## **Leto 2020**

### **Izjemen dosežek**

KÜÇÜKYAŞAR, Melis, EKREN, Banu Y., LERHER, Tone. Cost and performance comparison for tier-captive and tier-to-tier SBS/RS warehouse configurations. International transactions in operational research, ISSN 1475-3995. [Online ed.]. doi-org.ezproxy.lib.ukm.si/10.1111/itor.12864, doi: 10.1111/itor.12864. [COBISS.SI-ID 25139715]

### **Zelo kakovostni dosežki**

PAL, Snehashis, LOJEN, Gorazd, HUDAČEK, Radovan, RAJTUKOVA, Viktorija, BRAJLIH, Tomaž, KOKOL, Vanja, DRSTVENŠEK, Igor. As-fabricated surface morphologies of Ti-6Al-4V samples fabricated by different laser processing parameters in selective laser melting. Additive manufacturing, ISSN 2214-8604. [Print ed.], May 2020, vol. 33 (101147), str. 1-14, ilustr., doi: 10.1016/j.addma.2020.101147. [COBISS.SI-ID 23068438]

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.], Available online 29 October 2020, str. 1-35, ilustr., doi: 10.1016/j.apm.2020.10.032. [COBISS.SI-ID 36277251]

BERUS, Lucijano, SKAKUN, Plavka, RAJNOVIĆ, Dragan, JANJATOVIC, Petar, ŠIĐANIN, Leposava P., FICKO, Mirko. Determination of the grain size in single-phase materials by edge detection and concatenation. Metals, ISSN 2075-4701, Oct. 2020, vol. 10, iss. 10, str. 1-13, doi: 10.3390/met10101381. [COBISS.SI-ID 33011459]

PAL, Snehashis, LOJEN, Gorazd, GUBELJAK, Nenad, KOKOL, Vanja, DRSTVENŠEK, Igor. Melting, fusion and solidification behaviors of Ti-6Al-4V alloy in selective laser melting at different scanning speeds. Rapid prototyping journal, ISSN 1355-2546, June 2020, vol. 26, iss. 7, str. 1209-1215, doi: 10.1108/RPJ-07-2019-0206. [COBISS.SI-ID 25006083]

PAL, Snehashis, GUBELJAK, Nenad, HUDAČEK, Radovan, LOJEN, Gorazd, RAJTUKOVA, Viktorija, BRAJLIH, Tomaž, DRSTVENŠEK, Igor. Evolution of the metallurgical properties of Ti-6Al-4V, produced with different laser processing parameters, at constant energy density in selective laser melting. Results in physics, ISSN 2211-3797, 2020, vol. 17 (103186), str. 1-9, ilustr., doi: 10.1016/j.rinp.2020.103186. [COBISS.SI-ID 17585411]

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

FICKO, Mirko, BERUS, Lucijano, PALČIČ, Iztok, KLANČNIK, Simon. Design of facility layout for Industry 4.0. V: KARABEGOVIĆ, Isak (ur.), et al. Handbook of research on integrating Industry 4.0 in business and manufacturing, (Advances in business information systems and analytics book series (Print), ISSN 2327-3275), (Advances in business information systems and analytics book series (Online), ISSN 2327-3283). Hershey: IGI Global. 2020, str. 101-126, doi: 10.4018/978-1-7998-2725-2.ch005. [COBISS.SI-ID 23122198]

TIČ, Vito, LOVREC, Darko. An embedded online hydraulic fluid CM and RUL-system for

Industry 4.0 manufacturing machines. V: KARABEGOVIĆ, Isak (ur.), et al. Handbook of research on integrating Industry 4.0 in business and manufacturing, (Advances in business information systems and analytics book series (Print), ISSN 2327-3275), (Advances in business information systems and analytics book series (Online), ISSN 2327-3283). Hershey: IGI Global. 2020, str. 301-323, doi: 10.4018/978-1-7998-2725-2.ch014. [COBISS.SI-ID 23123222]

GOTLIH, Janez, KARNER, Timi, GOTLIH, Karl, BREZOČNIK, Miran. Application of industrial robots for robotic machining. V: KARABEGOVIĆ, Isak (ur.), BANJANOVIĆ-MEHMEDOVIĆ, Lejla (ur.). Industrial robots : design, applications and technology, (Robotics research and technology). New York: Nova Science Publishers, Inc. cop. 2020, str. 397-434, ilustr. [COBISS.SI-ID 19277571]

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

DRSTVENŠEK, Igor, BRAJLIH, Tomaž. Dodajalna izdelava : od hitre izdelave prototipov do 3D tiskane inovacije. 1. izd. Maribor: Univerzitetna založba Univerze: Fakulteta za strojništvo, 2020. 198 str., ilustr. ISBN 978-961-286-341-8. [COBISS.SI-ID 98316545]

DRSTVENŠEK, Igor, LEBER, Marjan. Upravljanje vzdrževanja. 1. izd. Maribor: Univerzitetna založba Univerze: Fakulteta za strojništvo, 2020. 178, [2] str., ilustr. ISBN 978-961-286-339-5. [COBISS.SI-ID 38863363]

DRSTVENŠEK, Igor, ULAGA, Samo. Vzdrževanje izdelovalne opreme. 1. izd. Maribor: Univerzitetna založba Univerze: Fakulteta za strojništvo, 2020. 112 str., ilustr. ISBN 978-961-286-340-1. [COBISS.SI-ID 98316033]

#### ***Doktorske disertacije***

KOSTEVŠEK ŠEGULA, Urška. Razvoj sistema za zagotavljanje načrtovanega položaja kolčnih endoprotez s pacientu prilagojenimi medicinskim pripomočki : doktorska disertacija. [Maribor: U. Kostevšek Šegula], 2020. XIV f, 108 str., ilustr. [dk.um.si/IzpisGradiva.php](http://dk.um.si/IzpisGradiva.php). [COBISS.SI-ID 32756739]

KARNER, Timi. Uporaba lomljenih odvodov za identifikacijo in vodenje dielektričnih elastomernih aktuatorjev : doktorska disertacija. Maribor: [T. Karner], 2020. XIX, 122 str., ilustr. [dk.um.si/IzpisGradiva.php](http://dk.um.si/IzpisGradiva.php). [COBISS.SI-ID 22982422]

GOTLIH, Janez. Vpliv statičnih, kinematičnih in dinamičnih dejavnikov na natančnost obdelave z robotom : doktorska disertacija. Maribor: [J. Gotlih], 2020. XII, 125 str., ilustr. [dk.um.si/IzpisGradiva.php](http://dk.um.si/IzpisGradiva.php). [COBISS.SI-ID 20959235]