RAZVOJNI POSTOPKI V STROJNIŠTVU

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	Razvojni postopki v strojništvu
Course title:	Development processes in Mechanical Engineering
Članica nosilka/UL Member:	UL FS

Študijski programi in stopnja	Študijska smer	Letnik	Semestri	Izbirnost
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni	Energetsko strojništvo (smer)	3. letnik	2. semester	obvezen
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni	Industrijsko inženirstvo (smer)	3. letnik	2. semester	obvezen
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni	Konstruiranje industrijskih sistemov (smer)	3. letnik	2. semester	obvezen
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni	Konstruiranje strojev in naprav (smer)	3. letnik	2. semester	obvezen
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni	Mehatronika (smer)	3. letnik	2. semester	obvezen
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni	Procesno strojništvo (smer)	3. letnik	2. semester	obvezen
Strojništvo - projektno aplikativni program, prva stopnja, visokošolski strokovni	Proizvodne tehnologije (smer)	3. letnik	2. semester	obvezen

Univerzitetna koda predmeta/University course code:	0562733

Koda učne enote na članici/UL Member course code:	3032-V

Predavanja /Lectures	**Seminar /Seminar**	**Vaje /Tutorials**	**Klinične vaje /Clinical tutorials**	**Druge oblike študija /Other forms of study**	**Samostoj no delo /Individua l student work**	**ECT S**
90		90			120	12

Nosilec predmeta/Lecturer:	Aljoša Peperko, Andrej Bombač, Andrej Kitanovski, Andrej Senegačnik, Boris Jerman, Božidar Šarler, Damjan Klobčar, Davorin Kramar, Drago Bračun, Edvard Govekar, Franc Majdič, Franci Pušavec, Igor Petrović, Iztok Golobič, Janez Diaci, Janez Kušar, Janez Žerovnik, Janko Slavič, Jernej Klemenc, Joško Valentinčič, Jože Kutin, Jurij Prezelj, Lidija Slemenik Perše , Marko Hočevar, Marko Nagode, Matija Jezeršek, Miha Boltežar, Miha Brojan, Mihael Sekavčnik, Miroslav Halilovič, Mitjan Kalin, Niko Herakovič, Nikola Vukašinović, Nikolaj Mole, Primož Podržaj, Robert Kunc, Rok Petkovšek, Rok Vrabič, Roman Šturm, Sašo Medved, Tomaž Katrašnik, Tomaž Pepelnjak, Uroš Stritih

Vrsta predmeta/Course type:	Izbirni strokovni predmet/ Elective specialised course

Jeziki/Languages:	Predavanja/Lectures:	Slovenščina
	Vaje/Tutorial:	Slovenščina

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisites:**
V sklopu predmeta se študent spozna s širšim področjem določenega dela tematike, ki jo bo obdelal v diplomski nalogi. Zato so pogoj za vključitev v delo opravljene študijske obveznosti prvih štirih semestrov študijskega programa PAP.	As part of the course, the student gets introduced to the broader field of a certain part of the topic, which he will deal with in the Bachelor's degree thesis. Therefore, the requirement for the course is completed study obligations of the first four semesters of the PAP study program.

Vsebina:	**Content (Syllabus outline):**

Glede na širši vidik obravnavane strokovne tematike diplomskega dela študent izbere tri nosilce tega predmeta, pri katerih bo opravljal ta predmet.	According to the broader aspect of the topic of the degree's thesis, the student chooses three lecturers of this course, with whom he will pursue this course.
1. Predstavitev ciljev predmeta in posameznih razvojnih tematik, ki jih bodo študentje opravljali tekom leta. 2. Pregled strokovne literature dogovoru z izbranimi nosilci predmeta. 3. Interaktivna predstavitev obdelanih temeljnih vsebin z individualno ali skupinsko diskusijo. 4. Opredelitev individualnega parcialnega problema na obravnavanem področju ob vodenju nosilcev predmeta. 5. Priprava načrta iskanja rešitev za opredeljeni parcialni problem ob vodenju nosilcev predmeta. 6. Pregled in študij teoretičnih osnov izbrane tematike. 7. Študij gradnikov in procesov uporabnih v izbrani razvojni tematiki. 8. Tehnike snovanja in vrednotenja na področju izbrane razvojne tematike. Glede na tematiko bo večji podarek na nealitičnih oziroma numeričnih metodah modeliranja sistemov/procesov izbrane tematike. 9. Interaktivna predstavitev povzetka obdelanih specializiranih vsebin z individualno ali skupinsko diskusijo. 10. Zasnova in razvoj naprave / eksperimentalnega sistema / računskega modela v sklopu izbrane tematike. 11. Razvoj metodologije vrednotenja razvite naprave / eksperimentalnega sistema / računskega modela. 12. Razvoj in izvedba eksperimentalnega dela. 13. Primerjava rezultatov z napovedmi iz dostopne literature. 14. Interaktivna predstavitev eksperimentalnih, računalniških ali analitičnih orodij ter primerjava z ugotovitvami iz dostopne literature. 15. Pregled izzivov za prihodnost na področju izbrane razvojne tematike.	1. Presentation of the course objectives and individual research topics that students will undertake throughout the year. 2. Review of the scientific literature in agreement with the chosen lecturers. 3. An interactive presentation of discussed core content through individual or group discussion. 4. Definition of an individual partial problem in the area under consideration guided by lecturers. 5. Preparation of a plan for finding solutions to the defined partial problem guided by lecturers. 6. Review and study of the theoretical basis of the selected topic. 7. Studies of the building blocks and processes applicable in the chosen topic. 8. Design and evaluation techniques in the field of the chosen topic. Depending on the topic, more emphasis will be given to the non-analytical, numerical methods of modelling systems / processes of the selected topic. 9. An interactive presentation of a summary of studied specialized content with individual or group discussion. 10. Design and development of the device / experimental system / computational model within the chosen topic. 11. Development of evaluation methodology of developed device / experimental system / computational model. 12. Development and implementation of experimental work. 13. Comparison of results and predictions from available literature. 14. Interactive presentation of experimental, computer or analytical tools and comparison with findings

| | from available literature. |
| | 15.An overview of the challenges ahead for the chosen research topic. |

Temeljna literatura in viri/Readings:

Določena je smiselno v dogovoru s tremi nosilci predmeta za vsakega študenta posebej glede na izbrano problematiko. Literatura je dosegljiva v knjižnici laboratorija, fakultetni knjižnici ali širše. Praviloma študent študira iz člankov, ki so obravnavali podoben primer, kakor ga ima sam definiranega.

It is determined appropriately in agreement with three lecturers for each student according to the chosen topic. Literature is available at the lab library, faculty library or beyond. As a rule, a student studies from articles dealing with a similar case as he or she has defined.

Cilji in kompetence:

Objectives and competences:

Cilji:

1. Omogočiti študentu seznanitev s temeljno in predmetno specifično literature na delu tematike, ki bo obravnavana v diplomski nalogi.
2. Seznanitev z namensko opremo na področju eksperimentiranja in uporabe računalniških orodij. Študent tako spozna osnovno funkcionalnost opreme, ki jo lahko uporabi.
3. Predmet se izvaja v laboratoriju (enem ali več) odvisno od dogovora z mentorjem in nosilci predmeta.

Kompetence:

S1-PAP: Sposobnost uporabe pridobljenega znanja v praksi.

S2-PAP: Sposobnost samostojnega dela v okviru znanj izbrane študijske smeri.

S4-PAP: Sposobnost razčlenitve lažjih strokovnih nalog na podnaloge.

S5-PAP: Razvijanje sposobnosti kritičnega in samokritičnega mišljenja.

S11-PAP: Sposobnost predstavitve strokovnih problemov in njihovih rešitev v svojem okolju in širše.

S13-PAP: Sposobnost iskanja virov znanja, selekcija najdenih virov in uporaba tako pridobljenega znanja pri svojem delu.

Objectives:

1. To enable the student to get acquainted with the basic and specific literature on the topic that will be discussed in the Bachelor's degree thesis.
2. To familiarize with the specific equipment in the field of experimentation and use of computer tools. Thus the student learns about the basic functionality of the equipment he can use.
3. The course is carried out in the laboratory (one or more), depending on the agreement with the mentor and course lecturers.

Competencies:

S1-PAP: The ability to use the attained knowledge in the practice.

S2-PAP: The ability to work autonomously in the framework of knowledge provided by the selected study module.

S4-PAP: The ability to break down professional tasks of lesser complexity into subtasks.

S5-PAP: Developing the ability of critical and self-critical thinking.

S11-PAP: The ability to present professional problems and the solutions

P4-PAP: Pozna osnovne merilne instrumente in merilne verige za merjenje osnovnih veličin na področju strojništva. P6-PAP: Obvlada samostojno projektno delo. P9-PAP: Diplomant je sposoben samostojno opravljati razvojno aplikativna, inženirska in strokovna organizacijska dela ter reševati posamezne dobro definirane naloge na področju strojništva.	thereof in own environment and wider. S13-PAP: The ability to find sources of knowledge, select among the available resources and use the knowledge acquired for one's work. P4-PAP: Knowing the basic measuring instruments and measuring chains used to measure the basic quantities in the field of mechanical engineering. P6-PAP: Mastering independent project work. P9-PAP: The graduates are able to independently perform applied developmental, engineering and professional organisational work, and to solve well-defined individual tasks in the field of mechanical engineering.

Predvideni študijski rezultati: | **Intended learning outcomes:**

Znanja: Z1: Poglobljeno strokovno teoretično in praktično znanje na določenem področju, podprto s širšo teoretično in metodološko osnovo. Spretnosti: S1.1 Izvajanje kompleksnih operativno-strokovnih opravil, ki vključujejo tudi uporabo metodoloških orodij. S1.2 Obvladovanje zahtevnih, kompleksnih delovnih procesov ob samostojni uporabi znanja v novih delovnih situacijah. S1.3 Diagnosticiranje in reševanje problemov v različnih specifičnih delovnih okoljih, povezanih s področjem izobraževanja in usposabljanja. S1.4 Osnova za izvirna dognanja/ stvaritve in kritično refleksijo.	Knowledge: Z1: Thorough professional theoretical and practical knowledge in a selected field of expertise that is supported with a broad theoretical and methodological basis. Skills: S1.1 Executing complex operational-professional tasks that incorporate usage of methodological tools. S1.2 Mastering demanding and complex work processes by independent usage of knowledge in new working situations. S1.3 Problem diagnostics and solving in different and specific working environments that are linked to the teaching and training content. S1.4 Basis for unique innovations and critical reflections.

Metode poučevanja in učenja: | **Learning and teaching methods:**

Klasične oblike poučevanja:	**Conventional teaching methods:**
P1 Avditorna predavanja z reševanjem izbranih - za področje značilnih - teoretičnih in praktično uporabnih	P1 Auditorial lectures with solving selected field-specific theoretical and

primerov.	applied use cases.
P2 Obravnava snovi po urejeni in vnaprej razloženi sistematiki.	P2 Presenting the content according to the explained system.
P5 Uporaba študijskega gradiva v obliki (opišite kateri- maks. ena vrstica na eno vrsto gradiva, izbirate med besedami npr. knjiga, skripta, zapiski, e-knjiga, tiskana verzija predstavitve predavanj, e-verzija predstavitve predavanj).	P5 Application of study material (description needs to be added, max. one line per material, e.g. textbook, e-book, printed lecture presentations, etc.).
Moderne in prožne oblike poučevanja:	**Contemporary and flexible teaching methods:**
P6 Interaktivna predavanja	P6 Interactive lectures.
P7 Študij literature in razprava	P7 Literature study and discussion.
P8 Izdelava in predstavitev aplikativnih seminarskih nalog	P8 Making and presenting applied seminar exercises.
P14 Virtualni eksperimenti	P14 Virtual experiments.

Načini ocenjevanja:	Delež/ Weight	Assessment:
Pisni preskus znanja	50,00 %	Written examination
Ocena končnih poročil (po enega za vsakega od treh nosilcev)	50,00 %	Evaluation of final reports (one report per each of three lecturers)

Reference nosilca/Lecturer's references:

Boltežar Miha

1. LUZNAR, Janez, SLAVIČ, Janko, **BOLTEŽAR, Miha**. Experimental research on structure-borne noise at pulse-width-modulation excitation. *Applied acoustics*, ISSN 0003-682X. [Print ed.], Aug. 2018, vol. 137, str. 33-39, ilustr. https://www.sciencedirect.com/science/article/pii/S0003682X17308903, doi: 10.1016/j.apacoust.2018.03.005. [COBISS.SI-ID 15939099].
2. SKRINJAR, Luka, SLAVIČ, Janko, **BOLTEŽAR, Miha**. A Review of continuous contact-force models in multibody dynamics. *International journal of mechanical sciences*, ISSN 0020-7403, Sep. 2018, vol. 145, str. 171-187, ilustr. https://reader.elsevier.com/reader/sd/903B8919459DA3FF13D9A5978641A8FD72722BBB5166ED0277F867AC3F587204A839D299CDEEBD3F76FFEFAB7B5B2E53, doi: 10.1016/j.ijmecsci.2018.07.010. [COBISS.SI-ID 16175131].
3. RAZPOTNIK, Matej, ČEPON, Gregor, **BOLTEŽAR, Miha**. A Smooth contact-state transition in a dynamic model of rolling-element bearings. *Journal of sound and vibration*, ISSN 0022-460X. [Print ed.], Sep. 2018, vol. 430, str. 196-213, ilustr. https://ac.els-cdn.com/S0022460X18303316/1-s2.0-S0022460X18303316-main. pdf?_tid=0053fe6d-b9b1-479b-9db2-02f142a55b55&acdnat=1528357961_a6804519835b68bd2d06a119a4e9a336, doi: 10.1016/j.jsv.2018.05.041. [COBISS.SI-ID 16096795].

Brojan Miha

1. VELDIN, Tomo, BRANK, Boštjan, **BROJAN, Miha**. Computational finite element model for surface wrinkling of shells on soft substrates. *Communications in Nonlinear Science & Numerical Simulation*, ISSN 1007-5704, maj 2019, letn. XX, str. 1-29, ilustr. DOI: 10.1016/j.cnsns.2019.104863. [COBISS.SI-ID 8813409]
2. **BROJAN, Miha**, TERWAGNE, Denis, LAGRANGE, Romain, REIS, Pedro. Wrinkling crystallography on spherical surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, ISSN 0027-8424, Jan. 2015, vol. 112, no. 1, str. 14-19, ilustr., DOI: 10.1073/pnas.1411559112. [COBISS.SI-ID 13852187].
3. TERWAGNE, Denis, **BROJAN, Miha**, REIS, Pedro. Smart morphable surfaces for aerodynamic drag control. Advanced materials, ISSN 0935-9648, Oct. 2014, vol. 26, iss. 38, str. 6608-6611, ilustr., DOI: 10.1002/adma.20140140 [COBISS.SI-ID 13725211]

Diaci Janez

1. HRIBAR, Melita, TRONTELJ, Jurij, BERGLEZ, Sandra, BEVC, Alenka, KUŠČER, Lovro, **DIACI, Janez**, LEGEN, Igor. Design of an innovative advanced gastric simulator. *Dissolution technologies*. 2019, vol. 26, iss. 4, str. 20-29, ilustr. ISSN 1521-298X. DOI: 10.14227/DT260219P20. [COBISS.SI-ID 1482846]
2. PRIBOŠEK, Jaka, **DIACI, Janez**, SINZINGER, Stefan. Simple unimorph deformable mirrors fabricated from piezo buzzers. *Journal of micromechanics and microengineering*. [Print ed.]. Apr. 2016, vol. 26, nr. 5, str. 1-7, ilustr. ISSN 0960-1317. http://iopscience.iop.org/article/10.1088/0960-1317/26/5/055009/meta;jsessionid=CDDAEBC643A0FF3A80B10D634A1FE21C.c1.iopscience.cld.iop.org, DOI: 10.1088/0960-1317/26/5/055009. [COBISS.SI-ID 15251227]
3. PRIBOŠEK, Jaka, BOBIČ, Miha, GOLOBIČ, Iztok, **DIACI, Janez**. Correcting the periodic optical distortion for particle-tracking velocimetry in corrugated-plate heat exchangers. *Strojniški vestnik*. Jan. 2016, vol. 62, no. 1, str. 3-10, si 3, ilustr. ISSN 0039-2480. DOI: 10.5545/sv-jme.2015.3125. [COBISS.SI-ID 14444827]

Golobič Iztok

1. GREGORČIČ, Peter, ZUPANČIČ, Matevž, **GOLOBIČ, Iztok**. Scalable surface microstructuring by a fiber laser for controlled nucleate boiling performance of high- and low-surface-tension fluids. *Scientific reports*. May 2018, vol. 8, f. 1-8, ilustr. ISSN 2045-2322. https://www.nature.com/articles/s41598-018-25843-5.pdf, DOI: 10.1038/s41598-018-25843-5. [COBISS.SI-ID 16034331]
2. RAVNIK, Jure, **GOLOBIČ, Iztok**, SITAR, Anže, AVANZO, M., IRMAN, Špela, KOČEVAR, K., CEGNAR, Mateja, ZADRAVEC, Matej, RAMŠAK, Matjaž, HRIBERŠEK, Matjaž. Lyophilization model of mannitol water solution in a laboratory scale lyophilizer. *Journal of drug delivery science and technology*. [Print ed.]. June 2018, vol. 45, str. 28-38, ilustr. ISSN 1773-2247. DOI: 10.1016/j.jddst.2018.0015. [COBISS.SI-ID 21209622]
3. ZUPANČIČ, Matevž, NOVAK, Dušan, DIACI, Janez, **GOLOBIČ, Iztok**. An evaluation of industrial ultrafiltration systems for surface water using fouling indices as a performance indicator. *Desalination*. [Print ed.]. Jul. 2014, vol. 344, str. 321-328, ilustr. ISSN 0011-9164. DOI: 10.1016/j.desal.2014.04.002. [COBISS.SI-ID 13420827]

Govekar Edvard

1. **GOVEKAR, Edvard**, JEROMEN, Andrej, KUZNETSOV, Alexander, LEVY, Gideon N., FUJISHIMA, Makoto. Study of an annular laser beam based axially-fed powder cladding process. CIRP annals. 2018, vol. 67, iss. 1, str. 241-244, ilustr. ISSN 0007-8506.
https://www.sciencedirect.com/science/article/pii/S0007850618301069, DOI: 10.1016/j.cirp.2018.04.082. [COBISS.SI-ID 16026395]
2. POTOČNIK, Primož, **GOVEKAR, Edvard**. Semi-supervised vibration-based classification and condition monitoring of compressors. Mechanical systems and signal processing. Sep. 2017, vol. 93, str. 51-65, ilustr. ISSN 0888-3270.
http://www.sciencedirect.com/science/article/pii/S088832701730047X, DOI: 10.1016/j.ymssp.2017.01.048. [COBISS.SI-ID 15296539]
3. KUZNETSOV, Alexander, JEROMEN, Andrej, **GOVEKAR, Edvard**. Droplet detachment regimes in annular laser beam droplet generation from a metal wire. CIRP annals. 2014, vol. 63, iss. 1, str. 225-228, ilustr. ISSN 0007-8506. DOI: 10.1016/j.cirp.2014.0051. [COBISS.SI-ID 13402651]

Halilovič Miroslav

1. STARMAN, Bojan, VRH, Marko, KOC, Pino, **HALILOVIČ, Miroslav**. Shear test-based identification of hardening behaviour of stainless steel sheet after onset of necking. *Journal of materials processing technology*. Aug. 2019, vol. 270, str. 335-344, ilustr. ISSN 0924-0136.
https://www.sciencedirect.com/science/article/pii/S0924013619300986, DOI: 10.1016/j.jmatprotec.2019.03.010. [COBISS.SI-ID 16527899]
2. **HALILOVIČ, Miroslav**, ISSA, Sally, WALLIN, Mathias, HALLBERG, Håkan, RISTINMAA, Matti. Prediction of the residual state in 304 austenitic steel after laser shock peening : effects of plastic deformation and martensitic phase transformation. *International journal of mechanical sciences*. Jun. 2016, vol. 111/112, str. 24-34, ilustr. ISSN 0020-7403. DOI: 10.1016/j.ijmecsci.2016.03.022. [COBISS.SI-ID 14602779]
3. VRH, Marko, **HALILOVIČ, Miroslav**, STARMAN, Bojan, ŠTOK, Boris, COMSA, Dan-Sorin, BANABIC, Dorel. Capability of the BBC2008 yield criterion in predicting the earingprofile in cup deep drawing simulations. *European journal of mechanics.A, Solids*. [Print ed.]. May/Jun. 2014, vol. 45, str. 59-74, ilustr. ISSN 0997-7538. DOI: 10.1016/j.euromechsol.20111.013. [COBISS.SI-ID 13311771]

Herakovič Niko

1. **HERAKOVIČ, Niko**, ŠIMIC, Marko, TRDIČ, Francelj, SKVARČ, Jure. A machine-vision system for automated quality control of welded rings. *Machine vision and applications*. [Print ed.]. 2011, vol. 22, no. 6, str. 967-98 ISSN 0932-8092. DOI: 10.1007/s00138-010-0293-9. [COBISS.SI-ID 11512091]
2. DEBEVEC, Mihael, ŠIMIC, Marko, **HERAKOVIČ, Niko**. Virtual factory as an advanced approach for production process optimization. *International journal of simulation modelling*. Mar. 2014, vol. 13, no. 1, str. 66-78, ilustr. ISSN 1726-4529. DOI: 10.2507/IJSIMM13(1)6.260. [COBISS.SI-ID 13367835]
3. PIPAN, Miha, **HERAKOVIČ, Niko**. Closed-loop volume flow control algorithm for fast switching pneumatic valves with PWM signal. *Control engineering practice*. [Print ed.]. Jan. 2018, vol. 70, str. 114-120. ISSN 0967-0661.
https://www.sciencedirect.com/science/article/pii/S096706611730240X, DOI: 10.1016/j.conengprac.2017.10.008. [COBISS.SI-ID 15981083]

Hočevar Marko

1. PODNAR, Andrej, DULAR, Matevž, ŠIROK, Brane, **HOČEVAR, Marko**. Experimental analysis of cavitation phenomena on kaplan turbine blades using flow visualization. Journal of fluids engineering : Transactions of the ASME. Jul. 2019, vol. 141, iss. 7, str. 1-13, [COBISS.SI-ID 16442651],
2. LEŠNIK, Luka, KEGL, Breda, BOMBEK, Gorazd, **HOČEVAR, Marko**, BILUŠ, Ignacijo. The influence of in-nozzle cavitation on flow characteristics and spray break-up. Fuel. [Print ed.]. 15 June 2018, vol. 222, str. 550-560. ISSN 0016-2361. https://www.sciencedirect.com/science/article/pii/S0016236118303272, DOI: 10.1016/j.fuel.2018.0144. [COBISS.SI-ID 21277462]
3. BERK, Peter, BELŠAK, Aleš, STAJNKO, Denis, LAKOTA, Miran, MUŠKINJA, Nenad, **HOČEVAR, Marko**, RAKUN, Jurij. Intelligent automated system based on a fuzzy logic system for plant protection product control in orchards. International journal of agricultural and biological engineering. 2019, vol. 12, no. 3, str. 92-102, [COBISS.SI-ID 4583468]

Jezeršek Matija

1. ROGELJ, Luka, PAVLOVČIČ, Urban, STERGAR, Jošt, **JEZERŠEK, Matija**, SIMONČIČ, Urban, MILANIČ, Matija. Curvature and height corrections of hyperspectral images using built-in 3D laser profilometry. Applied optics. Tiskana izd. 2019, vol. 58, no. 32, str. 9002-9012, ilustr. ISSN 1559-128X. DOI: 10.1364/AO.58.009002. [COBISS.SI-ID 3383908]
2. GREGORČIČ, Peter, LUKAČ, Nejc, MOŽINA, Janez, **JEZERŠEK, Matija**. In vitro study of the erbium:yttrium aluminum garnet laser cleaning of root canal by the use of shadow photography. Journal of biomedical optics. Jan. 2016, vol. 21, iss. 1, str. 1-7, ilustr. ISSN 1083-3668. DOI: 10.1117/1.JBO.21.1.015008. [COBISS.SI-ID 14461979]
3. PAVLOVČIČ, Urban, DIACI, Janez, MOŽINA, Janez, **JEZERŠEK, Matija**. Wound perimeter, area, and volume measurement based on laser 3D and color acquisition. BioMedical engineering online. Apr. 2015, vol. 14, f. 1-15, ilustr. ISSN 1475-925X. DOI: 10.1186/s12938-015-0031-7. [COBISS.SI-ID 13973787]

Kalin Mitjan

1. **KALIN, Mitjan**, KUPEC, Alja. The dominant effect of temperature on the fatigue behaviour of polymer gears. *Wear*, ISSN 0043-1648. [Print ed.], Apr. 2017, vol. 376/377, part B, str. 1339-1346, ilustr. https://www.sciencedirect.com/science/article/pii/S0043164817302788?via%3Dihub, doi: 10.1016/j.wear.2017.02.003. [COBISS.SI-ID 15897115]
2. BARTOLOMÉ, Luis, OBLAK, Eva, **KALIN, Mitjan**. Mechanical behaviour and constitutive models of ZDDP tribofilms on DLC coatings using nano-indentation data and finite element modelling. *Tribology international*, ISSN 0301-679X, Mar. 2016, vol. 95, str. 19-26, ilustr. https://www.sciencedirect.com/science/article/pii/S0301679X15004958?via%3Dihub, doi: 10.1016/j.triboint.2015.10.036. [COBISS.SI-ID 14342939]
3. **KALIN, Mitjan**, OBLAK, Eva, AKBARI, Somayeh. Evolution of the nano-scale mechanical properties of tribofilms formed from low- and high-SAPS oils and ZDDP on DLC coatings and steel. *Tribology international*, ISSN 0301-679X, Apr. 2016, vol. 96, str. 43-56, ilustr., doi: 10.1016/j.triboint.2015.12.013. [COBISS.SI-ID 14398491]

Katrašnik Tomaž

1. **KATRAŠNIK, Tomaž**. An advanced real-time capable mixture controlled combustion model. Energy, ISSN 0360-5442. [Print ed.], Jan. 2016, vol. 95, str. 393-403, ilustr. [COBISS.SI-ID 14407195]
2. MELE, Igor, PAČNIK, Ivo, ZELIČ, Klemen, MOŠKON, Jože, **KATRAŠNIK, Tomaž**. Advanced porous electrode modelling framework based on more consistent virtual representation of the electrode topology. Journal of the Electrochemical Society, ISSN 1945-7111. [Online ed.], 2020, vol. 167, no. 6, str. [1-18]. [COBISS.SI-ID 17157915]
3. KREGAR, Ambrož, TAVČAR, Gregor, KRAVOS, Andraž, **KATRAŠNIK, Tomaž**. Predictive system-level modeling framework for transient operation and cathode platinum degradation of high temperature proton exchange membrane fuel cells. Applied energy, ISSN 0306-2619, 2020, vol. 263, 17 f. [COBISS.SI-ID 17037083]

Kitanovski Andrej

1. LORBEK, Luka, KUHELJ, Anja, DULAR, Matevž, **KITANOVSKI, Andrej**. Two-phase flow patterns in adiabatic refrigerant flow through capillary tubes. *International journal of refrigeration*, ISSN 0140-7007. [Print ed.], 2020, vol. 115, str. 107-116, ilustr., doi: 10.1016/j.ijrefrig.2020.02.030. [COBISS.SI-ID 17060891]
2. POTOČNIK, Primož, VIDRIH, Boris, **KITANOVSKI, Andrej**, GOVEKAR, Edvard. Analysis and optimization of thermal comfort in residential buildings by means of a weather-controlled air-to-water heat pump. *Building and environment*, ISSN 0360-1323. [Print ed.], Aug. 2018, vol. 140, str. 68-79, ilustr. https://www.sciencedirect.com/science/article/pii/S036013231830310X, doi: 10.1016/j.buildenv.2018.05.044. [COBISS.SI-ID 16069915]
3. POREDOŠ, Primož, TOMC, Urban, PETELIN, Nada, VIDRIH, Boris, FLISAR, Uroš, **KITANOVSKI, Andrej**. Numerical and experimental investigation of the energy and exergy performance of solar thermal, photovoltaic and photovoltaic-thermal modules based on roll-bond heat exchangers. *Energy conversion and management*, ISSN 0196-8904. [Print ed.], Apr. 2020, vol. 210, str. 1-21, https://www.sciencedirect.com/science/article/pii/S0196890420302120?via%3Dihub, doi: 10.1016/j.enconman.2020.112674. [COBISS.SI-ID 17080603]

Klemenc Jernej

1. **KLEMENC, Jernej**, ŠERUGA, Domen, NAGODE, Marko. A durability prediction for the magnesium alloy AZ31 based on plastic and total energy. *Metals*. Sep. 2019, vol. 9, iss. 9, f. 1-16, ilustr. ISSN 2075-470 https://www.mdpi.com/2075-4701/9/9/973, DOI: 10.3390/met9090973. [COBISS.SI-ID 16772379]
2. MORAL PORTALÉS, Rubén, BOCHONS SANIA, María del Mar, **KLEMENC, Jernej**. Theoretical framework for estimating a product's reliability using a variable-amplitude loading spectrum and a stress-based approach. *Fatigue & fracture of engineering materials & structures*. Aug. 2018, vol. 41, iss. 8, str. 1662-1673, ilustr. ISSN 8756-758X. http://onlinelibrary.wiley.com/doi/10.1111/ffe.12804/epdf, DOI: 10.1111/ffe.12804. [COBISS.SI-ID 15958811]
3. ŠKRLEC, Andrej, **KLEMENC, Jernej**. Parameter identification for a Cowper-Symonds mater ial model using a genetic algorithm combined with a response surface. *Engineering computations*. 2017, vol. 34, iss. 3, str. 1-29, ilustr. ISSN 0264-4401. http://www.emeraldinsight.com/doi/pdfplus/10.1108/EC-03-2016-0099, DOI: 10.1108/EC-03-2016-0099. [COBISS.SI-ID 15420955]

Kunc Robert

1. BASAN, Robert, FRANULOVIĆ, Marina, PREBIL, Ivan, **KUNC, Robert**. Study on Ramberg-Osgood and Chaboche models for 42CrMo4 steel and some approximations. Journal of constructional steel research. [Print ed.]. sep. 2017, vol. 136, str. 65-74, ilustr. ISSN 0143-974X. http://www.sciencedirect.com/science/article/pii/S0143974X17302341, DOI: 10.1016/j.jcsr.2017.05.010. [COBISS.SI-ID 15531035]
2. BIČEK, Matej, **KUNC, Robert**, ZUPAN, Samo. Mechanical impact on in-wheel motor's performance. Journal of mechanics. [Print ed.]. Oct. 2017, vol. 33, iss. 5, str. 607-618, ilustr. ISSN 1727-7191. https://www.cambridge.org/core/journals/journal-of-mechanics/article/div-classtitlemechanical-impact-on-in-wheel-motorandaposs-performancediv/A4D5DB17B7102D3897C02AAAC07A32A7, DOI: 10.1017/jmech.2016.95. [COBISS.SI-ID 15295259]
3. ŽEROVNIK, Andrej, PEPEL, Vili, PREBIL, Ivan, **KUNC, Robert**. The yield-point phenomenon and cyclic plasticity of the uniaxially loaded specimens. Materials & design. Feb. 2016, vol. 92, str. 971-977, ilustr. ISSN 0264-1275. DOI: 10.1016/j.matdes.2015.12.111. [COBISS.SI-ID 14442011]

Kušar Janez

1. MUROVEC, Jure, **KUŠAR, Janez**, BERLEC, Tomaž. Methodology for searching representative elements. *Applied sciences*. 2019, vol. 9, iss. 7, f. 1-15, ilustr. ISSN 2076-3417. https://www.mdpi.com/2076-3417/9/17/3482/htm, DOI: 10.3390/app9173482. [COBISS.SI-ID 16755995].
2. **KUŠAR, Janez**, RIHAR, Lidija, DUHOVNIK, Jože, STARBEK, Marko. Concurrent realisation and quality assurance of products in the automotive industry. *Concurrent engineering : research and applications*. jun. 2014, vol. 22, no. 2, str. 162-171, ilustr. ISSN 1063-293X. DOI: 10.1177/1063293X13520315. [COBISS.SI-ID 13347355].
3. DUHOVNIK, Jože, ŽARGI, Urban, **KUŠAR, Janez**, STARBEK, Marko. Project-driven concurrent product development. *Concurrent engineering : research and applications*. Sep. 2009, vol. 17, no 3, str. 225-236. ISSN 1063-293X. DOI: 10.1177/1063293X09343823. [COBISS.SI-ID 11059483].

Medved Sašo

1. DOMJAN, Suzana, **MEDVED, Sašo**, ČERNE, Boštjan, ARKAR, Ciril. Fast modelling of nZEB metrics of office buildings built with advanced glass and BIPV facade structures. Energies. Aug. 2019, vol. 12, iss. 16, f. 1-18, ilustr. ISSN 1996-1073. https://www.mdpi.com/1996-1073/12/16/3194, DOI: 10.3390/en12163194. [COBISS.SI-ID 16752155]
2. ARKAR, Ciril, DOMJAN, Suzana, **MEDVED, Sašo**. Heat transfer in a lightweight extensive green roof under waterfreezing conditions. *Energy and buildings*. [Print ed.]. 2018, vol. 167, str. 187-199, ilustr. ISSN 0378-7788. [COBISS.SI-ID 15947035]
3. VIDRIH, Boris, ARKAR, Ciril, **MEDVED, Sašo**. Generalized model-based predictive weather control for the control of free cooling by enhanced night-time ventilation. *Applied energy.* Apr. 2016, vol. 168, str. 482-492, ilustr. ISSN 0306-2619. DOI: 10.1016/j.apenergy.2016.01.109. [COBISS.SI-ID 14543131]

Nagode Marko

1. ŠOLINC, Urša, KLEMENC, Jernej, **NAGODE, Marko**, ŠERUGA, Domen. A direct

approach to modelling the complex response of magnesium AZ31 alloy sheets to variable strain amplitude loading using Prandtl-Ishlinskii operators. *International journal of fatigue*. Oct. 2019, vol. 127, str. 291-304, ilustr. ISSN 0142-1123.
https://www.sciencedirect.com/science/article/pii/S0142112319302397, https://repozitorij.uni-lj.si/IzpisGradiva.php?id=108298&lang=slv, DOI: 10.1016/j.ijfatigue.2019.06.009. [COBISS.SI-ID 16674075]

2. ŠERUGA, Domen, **NAGODE, Marko**. A new approach to finite element modelling of cyclic thermomechanical stress-strain responses. *International journal of mechanical sciences*. Dec. 2019, vol. 164, str. 1-14, ilustr. ISSN 0020-7403. https://www.sciencedirect.com/science/article/pii/S0020740319306964?via%3Dihub, DOI: 10.1016/j.ijmecsci.2019.105139. [COBISS.SI-ID 16795675]

3. **NAGODE, Marko**, ŠERUGA, Domen. Fatigue life prediction using multiaxial energy calculations with the mean stress effect to predict failure of linear and nonlinear elastic solids. *Results in physics*. 2016, vol. 6, f. 352-364, ilustr. ISSN 2211-3797.
http://www.sciencedirect.com/science/article/pii/S2211379716300407, DOI: 10.1016/j.rinp.2016.06.007. [COBISS.SI-ID 14715163]

Petkovšek Rok

1. **PETKOVŠEK, Rok**, NOVAK, Vid, AGREŽ, Vid. High power fiber MOPA based QCW laser delivering pulses with arbitrary duration on demand at high modulation bandwidth. *Optics express*, ISSN 1094-4087, 2015, vol. 23, no. 26, str. 33150-33156, ilustr., doi: 10.1364/OE.23.033150. [COBISS.SI-ID 14385947]

2. ORTHABER, Uroš, **PETKOVŠEK, Rok**, SCHILLE, Jörg, HARTWIG, L., HAWLINA, Gregor, DRNOVŠEK-OLUP, Brigita, VREČKO, Andrej, POBERAJ, Igor. Effect of laser-induced cavitation bubble on a thin elastic membrane. *Optics and laser technology*, ISSN 0030-399 [Print ed.], Dec. 2014, vol. 64, str. 94-100, ilustr., doi: 10.1016/j.optlastec.2014.05.008. [COBISS.SI-ID 14498843]

3. MUR, Jaka, **PETKOVŠEK, Rok**. Near-THz bursts of pulses : governing surface ablation mechanisms for laser material processing. *Applied Surface Science*, ISSN 0169-4332. [Print ed.], Jun. 2019, vol. 478, str. 355-360, ilustr. https://www.sciencedirect.com/science/article/pii/S0169433219302120?via%3Dihub, doi: 10.1016/j.apsusc.2019.01.182. [COBISS.SI-ID 16467995]

Pušavec Franci

1. **PUŠAVEC, Franci**, GRGURAŠ, Damir, KOCH, Matthias, KRAJNIK, Peter. Cooling capability of liquid nitrogen and carbon dioxide in cryogenic milling. *CIRP annals*, ISSN 0007-8506, 2019, vol. 68, iss. 1, str. 73-76, ilustr. https://www.sciencedirect.com/science/article/pii/S0007850619300174, doi: 10.1016/j.cirp.2019.03.016. [COBISS.SI-ID 16614427]

2. GRGURAŠ, Damir, STERLE, Luka, KRAJNIK, Peter, **PUŠAVEC, Franci**. A novel cryogenic machining concept based on a lubricated liquid carbon dioxide. *International journal of machine tools & manufacture : Design, research and application*, ISSN 0890-6955. [Print ed.], Oct. 2019, vol. 145, str. 1-6, ilustr. https://www.sciencedirect.com/science/article/pii/S0890695519307953?via%3Dihub, doi: 10.1016/j.ijmachtools.2019.103456. [COBISS.SI-ID 16781851]

3. **PUŠAVEC, Franci**, DESHPANDE, Ashish, YANG, Shu, M'SAOUBI, Rachid, KOPAČ, Janez, DILLON, Oscar W., JAWAHIR, I. S. Sustainable machining of high temperature Nickel alloy - Inconel 718. Part 2, Chip breakability and optimization. *Journal of cleaner production*, ISSN 0959-6526. [Print ed.], Jan. 2015, vol. 87, str. 941-952, ilustr., doi: 10.1016/j.jclepro.2014.10.085.

[COBISS.SI-ID 13790491]

Sekavčnik Mihael

1. LOTRIČ, Andrej, **SEKAVČNIK, Mihael**, POHAR, Andrej, LIKOZAR, Blaž, HOČEVAR, Stanko. Conceptual design of an integrated thermally self-sustained methanol steam reformer : high-temperature PEM fuel cell stack manportable power generator. *International journal of hydrogen energy*. [Print ed.]. Jun. 2017, vol. 42, iss. 26, str. 16700-16713, ilustr. ISSN 0360-3199. http://www.sciencedirect.com/science/article/pii/S0360319917319225. [COBISS.SI-ID 15546139]
2. MORI, Mitja, MRŽLJAK, Tilen, DROBNIČ, Boštjan, **SEKAVČNIK, Mihael**. Integral characteristics of hydrogen production in alkaline electrolysers. *Strojniški vestnik*. Oct. 2013, vol. 59, no. 10, str. 585-594, si 116, ilustr. ISSN 0039-2480. DOI: 10.5545/sv-jme.2012.858. [COBISS.SI-ID 13158683]
3. LACKO, Rok, DROBNIČ, Boštjan, **SEKAVČNIK, Mihael**, MORI, Mitja. Hydrogen energy system with renewables for isolated households : The optimal system design, numerical analysis and experimental evaluation. *Energy and buildings*. Sep. 2014, vol. 80, str. 106-113, ilustr. ISSN 0378-7788. DOI: 10.1016/j.enbuild.2014.04.009. [COBISS.SI-ID 13429787]

Slavič Janko

1. LUZNAR, Janez, **SLAVIČ, Janko**, BOLTEŽAR, Miha. Experimental research on structure-borne noise at pulse-width-modulation excitation. Applied acoustics, ISSN 0003-682X. [Print ed.], Aug. 2018, vol. 137, str. 33-39, ilustr. https://www.sciencedirect.com/science/article/pii/S0003682X17308903, doi: 10.1016/j.apacoust.2018.03.005. [COBISS.SI-ID 15939099]
2. SKRINJAR, Luka, **SLAVIČ, Janko**, BOLTEŽAR, Miha. A Review of continuous contact-force models in multibody dynamics. International journal of mechanical sciences, ISSN 0020-7403, Sep. 2018, vol. 145, str. 171-187, ilustr. https://reader.elsevier.com/reader/sd/903B8919459DA3FF13D9A5978641A8FD72722BBB5166ED0277F867AC3F587204A839D299CDEEBD3F76FFEFAB7B5B2E53, doi: 10.1016/j.ijmecsci.2018.07.010. [COBISS.SI-ID 16175131]
3. JAVH, Jaka, **SLAVIČ, Janko**, BOLTEŽAR, Miha. High frequency modal identification on noisy high-speed camera data. Mechanical systems and signal processing, ISSN 0888-3270, Jan. 2018, vol. 98, str. 344-351, ilustr. http://www.sciencedirect.com/science/article/pii/S0888327017302637, doi: 10.1016/j.ymssp.2017.05.008. [COBISS.SI-ID 15504923]

Šarler Božidar

1. **ŠARLER, Božidar**, DOBRAVEC, Tadej, GLAVAN, Gašper, HATIĆ, Vanja, MAVRIČ, Boštjan, VERTNIK, Robert, CVAHTE, Peter, GREGOR, Filip, JELEN, Marina, PETROVIČ, Marko. Multi-physics and multi-scale meshless simulation system for direct-chill casting of aluminium alloys. *Strojniški vestnik*. Nov./Dec. 2019, vol. 65, no. 11/12, str. 658-670, ilustr. ISSN 0039-2480. https://www.sv-jme.eu/sl/article/multi-physics-and-multi-scale-meshless-simulation-system-for-direct-chill-casting-of-aluminium-alloys/, DOI: 10.5545/sv-jme.2019.6350. [COBISS.SI-ID 3385188]
2. DOBRAVEC, Tadej, MAVRIČ, Boštjan, **ŠARLER, Božidar**. Reduction of discretisation-induced anisotropy in the phase-field modelling of dendritic growth by meshless approach. *Computational materials science*. [Print ed.]. 2020, vol. 172, [12] str., graf. prikazi, ilustr. ISSN 0927-0256. https://doi.org/10.1016/j.commatsci.2019.109166, DOI:

10.1016/j.commatsci.2019.109166. [COBISS.SI-ID 1527466]

3. KOVAČIČ, Miha, STOPAR, Klemen, VERTNIK, Robert, **ŠARLER, Božidar**. Comprehensive electric arc furnace electric energy consumption modeling : a pilot study. *Energies*. Jun. 2019, vol. 12, iss. 11, f. 1-13, ilustr. ISSN 1996-1073. https://www.mdpi.com/1996-1073/12/11/2142, DOI: 10.3390/en12112142. [COBISS.SI-ID 16647451]

Šturm Roman

1. **ŠTURM, Rom**an, GRIMBERG, Raimond, SAVIN, Adriana, GRUM, Janez. Destructive and nondestructive evaluations of the effect of moisture absorption on the mechanical properties of polyester-based composites. *Composites.Part B, Engineering*. [Print ed.]. Mar. 2015, vol. 71, str. 10-16, ilustr. ISSN 1359-8368. DOI: 10.1016/j.compositesb.2014.11.022. [COBISS.SI-ID 13818395]

2. ŽAGAR, Sebastjan, **ŠTURM, Roman**. Influence of grinding on the residual stress measurements of shot peened aluminum alloy AA7075. *Strojniški vestnik*. Jul./Avg. 2019, vol. 65, no. 7/8, str. 401-409, ilustr. ISSN 0039-2480. https://www.sv-jme.eu/article/influence-of-grinding-on-the-residual-stress-measurements-of-shot-peened-aluminum-alloy-aa7075/, DOI: 10.5545/sv-jme.2019.6083. [COBISS.SI-ID 16702235]

3. RAVNIKAR, Dunja, TRDAN, Uroš, NAGODE, Aleš, **ŠTURM, Roman**. Energy density effect of laser alloyed TiB2/TiC/Al composite coatings on LMZ/HAZ, mechanical and corrosion properties. *Metals*. 2020, iss. 3, vol. 10, str. 1-19, ilustr. ISSN 2075-4701. https://www.mdpi.com/2075-4701/10/3/411/htm, DOI: 10.3390/met10030411. [COBISS.SI-ID 17102363]

Nikola Vukašinović

1. **VUKAŠINOVIĆ, Nikola**, BRAČUN, Drago, MOŽINA, Janez, DUHOVNIK, Jože. A new method for defining the measurement-uncertainty model of CNC laser-triangulation scanner. *International journal of advanced manufacturing technology*. 2012, no. 9/12, str. 1097-1104. ISSN 0268-3768. DOI: 10.1007/s00170-011-3467-3. [COBISS.SI-ID 11915803], [JCR, SNIP, WoS]

2. URBAS, Uroš, ZORKO, Damijan, **VUKAŠINOVIĆ, Nikola**. Machine learning based nominal root stress calculation model for gears with a progressive curved path of contact. *Mechanism and machine theory*. Nov. 2021, vol. 165, str. 1-14, ilustr. ISSN 0094-114X. https://www.sciencedirect.com/science/article/pii/S0094114X21001889, DOI: 10.1016/j.mechmachtheory.2021.104430. [COBISS.SI-ID 69206531], [JCR, SNIP, WoS]

3. **VUKAŠINOVIĆ, Nikola**, ZADNIK, Žiga, DUHOVNIK, Jože. Use of MFF and concurrent engineering to develop a sustainable product : radical redesign of flushing system. V: CHAKRABARTI, Amaresh (ur.). ICoRD'15 - Research into Design Across Boundaries. Vol. 2, Creativity, sustainability, DfX, enabling technologies, management and applications. Fifth International Conference on Research into Design - ICoRD'15, Bangalore, India, 7-9 January 2015. New Delhi [etc.]: Springer, 2015. Vol. 35, f. 171-180, ilustr. Smart innovation, systems and technologies (Internet), Vol. 35. ISBN 978-81-322-2228-6, ISBN 978-81-322-2229-3. ISSN 2190-3026. DOI: 10.1007/978-81-322-2229-3_15. [COBISS.SI-ID 13851419], [SNIP]

4. ORBANIĆ, Henri, **VUKAŠINOVIĆ, Nikola**. The future small home appliances as seen by the university students. V: JUNKAR, Mihael (ur.), et al. MIT 2014 : proceedings of the 13th International Conference on Management of Innovative Technologies, Fiesa, Slovenia, 28th - 30th September 2014. 13th International

Conference on Management of Innovative Technologies, Fiesa, Slovenia, 28th - 30th September 2014. Ljubljana: LAT - Laboratory for Alternative Technologies, Faculty of Mechanical Engineering, 2014. F. 39-44, ilustr. ISBN 978-961-6536-76-9. https://mitconference.files.wordpress.com/2014/12/mit2014-conference-proceedings.pdf. [COBISS.SI-ID 13853979]

5. ANIĆ, Dino, ANTONIĆ, Krunoslav, DUHOVNIK, Jože, MARLOT, Jernej, PAVKOVIĆ, Neven, PENCA, Jure, POVŠE, Gregor, SOFALVI, Janos, SZABO, Joszef, TADEJ, Tea, **VUKAŠINOVIĆ, Nikola**, et al. *Handküchengerät mit Schutzabdeckung : EP2394544 (B1), 2014-05-21*. München: Europäisches Patentamt, 2014. 11 f., ilustr. [COBISS.SI-ID 12127259] patentna družina: Objavljen tudi kot: DE102011077343 (A1), 2011-12-15; Objavljen tudi kot: EP2394544 (A2), 2011-12-14; Objavljen tudi kot: ES2472451 (T3), 2014-07-01; Objavljen tudi kot: EP2394544 (A3), 2012-04-11

Klobčar Damjan

1. KOSEC, Tadeja, LEGAT, Andraž, KOVAČ, Janez, **KLOBČAR, Damjan**. Influence of laser colour marking on the corrosion properties of low alloyed Ti. *Coatings*. Jun. 2019, vol. 9, iss. 6, str. 1-14, ilustr. ISSN 2079-6412. https://www.mdpi.com/2079-6412/9/6/375, DOI: 10.3390/coatings9060375. [COBISS.SI-ID 2463591]

2. SMOLEJ, Anton, **KLOBČAR, Damjan**, SKAZA, Branko, NAGODE, Aleš, SLAČEK, Edvard, DRAGOJEVIČ, Vukašin, SMOLEJ, Samo. Superplasticity of the rolled and friction stir processed Al-4.5 Mg-0.35Sc-0.15Zr alloy. *Materials Science & Engineering.A, Structural materials: Properties, Microstructure and Processing*. [Print ed.]. Jan. 2014, vol. 590, str. 239-245, ilustr. ISSN 0921-5093. DOI: 10.1016/j.msea.2013.10.027. [COBISS.SI-ID 1315679]

3. **KLOBČAR, Damjan**, TUŠEK, Janez, KOSEC, Ladislav. Suitability of maraging steel weld cladding for repair of die-casting tooling.Part 1, Influence of welding and aging heat treatment on 18% Ni maraging steel weld microstructure and mechanical properties. *International journal of materials research : Zeitschrift für Metallkunde*. 2009, vol. 100, issue 5, str. 713-722. ISSN 1862-5282. DOI: 10.3139/146.110078. [COBISS.SI-ID 10944795]

Kramar Davorin

1. BOROJEVIĆ, S., LUKIC, Dejan, MILOŠEVIĆ, Miloš, VUKMAN, J., **KRAMAR, Davorin**. Optimization of process parameters for machining of Al 7075 thin-walled structures. *Advances in production engineering & management*, ISSN 1854-6250, Jun. 2018, vol. 13, no. 2, str. 125-135, ilustr. http://apem-journal.org/Archives/2018/APEM13-2_125-135.pdf, doi: 10.14743/apem2018.2.278. [COBISS.SI-ID 16188443],

2. ENIKO, Peter, SOKOVIĆ, Mirko, **KRAMAR, Davorin**. Influence of non-productive operations on product quality. *Strojniški vestnik*, ISSN 0039-2480, Mar. 2016, vol. 62, no. 3, str. 197-204, SI 29, ilustr., doi: 10.5545/sv-jme.2015.3109. [COBISS.SI-ID 14547227]

3. PUŠAVEC, Franci, **KRAMAR, Davorin**, KRAJNIK, Peter, KOPAČ, Janez. Transitioning to sustainable production. Part 2, Evaluation of sustainable machining technologies. *Journal of cleaner production*, ISSN 0959-6526. [Print ed.], Aug. 2010, vol. 18, iss. 12, str. 1211-1221, ilustr., https://www.sciencedirect.com/science/article/pii/S0959652610000260 doi:10.1016/j.jclepro.2010.01.015. [COBISS.SI-ID 11299355]

Kutin Jože

1. SVETE, Andrej, **KUTIN, Jože**. Experimental validation of an improved mathematical model for pneumatic pressure measurement systems with connecting tubes. *Measurement science & technology*. [Print ed.]. 2020, vol. 31, no. 1, str. 1-10, ilustr. ISSN 0957-0233. https://iopscience.iop.org/article/10.1088/1361-6501/ab3d50/meta, DOI: 10.1088/1361-6501/ab3d50. [COBISS.SI-ID 16933147]
2. **KUTIN, Jože**, BOBOVNIK, Gregor, BAJSIČ, Ivan. Heat exchange effects on the performance of a clearance-sealed piston prover for gas flow measurements. *Metrologia*. 2015, vol. 52, nr. 6, str. 857-863, ilustr. ISSN 0026-1394. DOI: 10.1088/0026-1394/52/6/857. [COBISS.SI-ID 14310427]
3. RUPNIK, Klemen, **KUTIN, Jože**, BAJSIČ, Ivan. Identification and prediction of the dynamic properties of resistance temperature sensors. *Sensors and actuators.A, Physical*. 2013, vol. 197, str. 69-75, ilustr. ISSN 0924-4247. DOI: 10.1016/j.sna.2013.03.039. [COBISS.SI-ID 12775451]

Majdič Franc

1. **KALIN, Mitjan**, POLAJNAR, Marko, KUS, Maja, MAJDIČ, Franc. Green tribology for the sustainable engineering of the future. Strojniški vestnik, ISSN 0039-2480, Nov./Dec. 2019, vol. 65, no. 11/12, str. 709-727, ilustr.
2. **MAJDIČ, Franc**, KALIN, Mitjan. Test rig and comparison of pressure changes at transient phenomena in water- and oil-based power-comtrol hydraulics. Journal of vibroengineering, ISSN 1392-8716, Feb. 2014, vol. 16, iss. 1, str. 401-411.
3. **MAJDIČ, Franc**, KALIN, Mitjan. Test rig and comparison of pressure changes at transient phenomena in water- and oil-based power-comtrol hydraulics. Journal of vibroengineering, ISSN 1392-8716, Feb. 2014, vol. 16, iss. 1, str. 401-411.

Podržaj Primož

1. FINŽGAR, Miha, **PODRŽAJ, Primož**. A wavelet-based decomposition method for a robust extraction of pulse rate from video recordings. PeerJ. Nov. 2018, vol. 6, f. 1-26, ilustr. ISSN 2167-8359. https://peerj.com/articles/5859/, DOI: 10.7717/peerj.5859. [COBISS.SI-ID 16366363]
2. SIMONČIČ, Samo, **PODRŽAJ, Primož**. An improved digital image correlation calculation in the case of substantial lighting variation. Experimental mechanics. Tiskana izd. Jun. 2017, vol. 57, iss. 5, str. 743-753, ilustr. ISSN 0014-4851. https://link.springer.com/article/10.1007/s11340-017-0265-3, DOI: 10.1007/s11340-017-0265-3. [COBISS.SI-ID 15493147]
3. **PODRŽAJ, Primož**, ČEBULAR, Andrej. The application of LVQ neural network for weld strength evaluation of RF welded plastic materials. IEEE/ASME transactions on mechatronics. Apr. 2016, vol. 21, nr. 2, str. 1063-1071, ilustr. ISSN 1083-4435. DOI: 10.1109/TMECH.2015.2498278. [COBISS.SI-ID 14382619]

Prezelj Jurij

1. **PREZELJ, Jurij**, MUROVEC, Jure. Traffic noise modelling and measurement : inter-laboratory comparison. *Applied acoustics*. [Print ed.]. Dec. 2017, vol. 127, str. 160-168, ilustr. ISSN 0003-682X. DOI: 10.1016/j.apacoust.2017.06.010. [COBISS.SI-ID 15775259]
2. ŠTEBLAJ, Peter, ČUDINA, Mirko, LIPAR, Primož, **PREZELJ, Jurij**. Adaptive muffler based on controlled flow valves. *The Journal of the Acoustical Society of America*. Jun. 2015, vol. 137, iss. 6, str. el503-el509, ilustr. ISSN 0001-4966.

DOI: [10.1121/1.4921682](#). [COBISS.SI-ID [14021147](#)]

3. LIPAR, Primož, ČUDINA, Mirko, ŠTEBLAJ, Peter, **PREZELJ, Jurij**. Automatic recognition of machinery noise in the working environment. Strojniški vestnik, ISSN 0039-2480, Dec. 2015, vol. 61, no. 12, str. 698-708, SI 128, ilustr., doi: 10.5545/sv-jme.2015.2781. [COBISS.SI-ID 14265627]

Slemenik Perše Lidija

1. OSELI, Alen, PRODAN, Ted, SUSIČ, Egon, **SLEMENIK PERŠE, Lidija**. The effect of short fiber orientation on long term shear behavior of 40% glass fiber reinforced polyphenylene sulfide. *Polymer testing*. [Print ed.]. Jan. 2020, vol. 81, str. 1-12, ilustr. ISSN 0142-9418. [https://www.sciencedirect.com/science/article/pii/S0142941819316538?via%3Dihub](#), DOI: [10.1016/j.polymertesting.2019.106262](#). [COBISS.SI-ID [16981019](#)]

2. **SLEMENIK PERŠE, Lidija**, HUSKIĆ, Miroslav. Rheological characterization of multiarm star copolymers. *European Polymer Journal*. [Print ed.]. Mar. 2016, vol. 76, str. 188-195. ISSN 0014-3057. [http://www.sciencedirect.com/science/article/pii/S0014305716300453/pdfft?md5=a6d369cbad988b50a18bb36cc1855544&pid=1-s2.0-S0014305716300453-main.pdf](#), DOI: [.1016/j.eurpolymj.2016.01.045](#). [COBISS.SI-ID [5862682](#)]

3. **SLEMENIK PERŠE, Lidija**, MIHELČIČ, Mohor, OREL, Boris. Rheological and optical properties of solar absorbing paints with POSS-treated pigments. *Materials chemistry and physics*. [Print ed.]. Jan. 2015, vol. 149/150, str. 368-377. ISSN 0254-0584. [http://ac.els-cdn.com/S0254058414006828/1-s2.0-S0254058414006828-main.pdf?_tid=2e86e240-7563-11e4-8658-00000aacb361&acdnat=1417003137_ba8d5da662012336ae2203582f409cb8](#), DOI: [10.1016/j.matchemphys.2014.10.031](#). [COBISS.SI-ID [5607706](#)]

Stritih Uroš

1. MLAKAR, Urška, STROPNIK, Rok, KOŽELJ, Rok, MEDVED, Sašo, **STRITIH, Uroš**. Experimental and numerical analysis of seasonal solar-energy storage in buildings. *International journal of energy research*. 2019, vol. 43, iss. 12, str. 6409-6418, ilustr. ISSN 0363-907X. [https://onlinelibrary.wiley.com/doi/abs/10.1002/er.4449](#), DOI: [10.1002/er.4449](#). [COBISS.SI-ID [16558619](#)],

2. KRESE, Gorazd, KOŽELJ, Rok, BUTALA, Vincenc, **STRITIH, Uroš**. Thermochemical seasonal solar energy storage for heating and cooling of buildings. *Energy and buildings*. Apr. 2018, vol. 164, str. 239-253, ilustr. ISSN 0378-7788. [http://www.sciencedirect.com/science/article/pii/S0378778817301469](#), DOI: [10.1016/j.enbuild.2017.12.057](#). [COBISS.SI-ID [15839515](#)]

3. **STRITIH, Uroš**, CHARVÁT, Pavel, KOŽELJ, Rok, KLIMEŠ, Lubomír, OSTERMAN, Eneja, OSTRÝ, Milan, BUTALA, Vincenc. PCM thermal energy storage in solar heating of ventilation air : experimental and numerical investigations. *Sustainable cities and society*. [Spletna izd.]. 2018, vol. 37, f. 104-115, ilustr. ISSN 2210-6715. [http://www.sciencedirect.com/science/article/pii/S2210670717309605?via%3Dihub](#), DOI: [10.1016/j.scs.2017.10.018](#). [COBISS.SI-ID [15795739](#)]

Valentinčič Joško

1. **VALENTINČIČ, Joško**, PRIJATELJ, Miha, JERMAN, Marko, LEBAR, Andrej, SABOTIN, Izidor. Characterization of a custom-made digital light processing

stereolithographic printer based on a slanted groove micromixer geometry. *Journal of micro- and nano-manufacturing*, ISSN 2166-0468. [Print ed.], Mar. 2020, vol. 8, str. 010911-1- 010911-6, doi: 10.1115/1.4046044. [COBISS.SI-ID 17038363]

2. GOTOVAC, Gorazd, DETELA, Andrej, LAMPIČ, Gorazd, **VALENTINČIČ, Joško**. Analytical and FEM approach to reduce the cogging torque in in-wheel motors. *Electrical engineering*, ISSN 0948-7921. [Print ed.], Apr. 2015, vol. 97, str. 269-275, doi: 10.1007/s00202-015-0334-5. [COBISS.SI-ID 13945371]

3. BISSACCO, Giuliano, HANSEN, H.N., TRISTO, Gianluca, **VALENTINČIČ, Joško**. Feasibility of wear compensation in micro EDM milling based on discharge counting and discharge population characterization. *CIRP annals*, ISSN 0007-8506, 2011, vol. 60, iss. 1, str. 231-234, doi: 10.1016/j.cirp.2011.03.064. [COBISS.SI-ID 11959579]

Bombač Andrej

1. **BOMBAČ, Andrej**. Asymmetric blade disc turbine for high aeration rates. *Strojniški vestnik*, ISSN 0039-2480, Sep. 2018, vol. 64, no. 9, str. 513-524, SI 74, ilustr. https://www.sv-jme.eu/?ns_articles_pdf=/ns_articles/files/ojs/5149/public/5149-30018-1-PB.pdf&id=6119, doi: 10.5545/sv-jme.2017.5149. [COBISS.SI-ID 16191515]

2. STRITIH, Uroš, **BOMBAČ, Andrej**. Description and analysis of adsorption heat storage device. *Strojniški vestnik*, ISSN 0039-2480, Oct. 2014, vol. 60, no. 10, str. 619-628, SI 117, ilustr., doi: 10.5545/sv-jme.2014.1814. [COBISS.SI-ID 13716507]

3. **BOMBAČ, Andrej**, BEADER, Dečan, ŽUN, Iztok. Mixing times in a stirred vessel with a modified turbine. *Acta chimica slovenica*, ISSN 1318-0207. [Tiskana izd.], 2012, vol. 59, no. 4, str. 707-721, ilustr. [COBISS.SI-ID 12578075]

Bračun Drago

1. ŠKULJ, Gašper, SLUGA, Alojzij, **BRAČUN, Drago**, BUTALA, Peter, VRABIČ, Rok. Energy efficient communication based on self-organisation of IoT devices for material flow tracking. *CIRP annals*, ISSN 0007-8506, 2019, vol. 68, iss. 1, str. 495-498, ilustr. https://www.sciencedirect.com/science/article/pii/S0007850619300137?via%3Dihub, doi: 10.1016/j.cirp.2019.03.012. [COBISS.SI-ID 16704539]

2. DIACI, Janez, **BRAČUN, Drago**, GORKIČ, Aleš, MOŽINA, Janez. Rapid and flexible laser marking and engraving of tilted and curved surfaces. *Optics and lasers in engineering*, ISSN 0143-8166. [Print ed.], Feb. 2010, vol. 49, iss. 2, str. 195-199, doi: 10.1016/j.optlaseng.2010.09.003. [COBISS.SI-ID 11593243]

3. VUKAŠINOVIĆ, Nikola, **BRAČUN, Drago**, MOŽINA, Janez, DUHOVNIK, Jože. The influence of incident angle, object colour and distance on CNC laser scanning. *International journal of advanced manufacturing technology*, ISSN 0268-3768, Sep. 2010, vol. 50, iss. 1/4, str. 265-274, ilustr., doi: 10.1007/s00170-009-2493-x. [COBISS.SI-ID 11254299].

Jerman Boris

1. HLADNIK, Jurij, **JERMAN, Boris**. Advanced finite element cross-country ski boot model for mass optimization directions considering flexion stiffness. *Proceedings of the Institution of Mechanical Engineers.Part P, Journal of sports engineering and technology (Print)*. 2018, vol. 232, iss. 3, str. 264-274, ilustr. ISSN 1754-3371. https://journals.sagepub.com/doi/abs/10.1177/1754337117745238?

journalCode=pipa, DOI: [10.1177/1754337117745238](). [COBISS.SI-ID [15789083]()]

2. HLADNIK, Jurij, SUPEJ, Matej, **JERMAN, Boris**. Force measurement system for roller-ski skating. *Tehnički vjesnik*. Lis. 2018, vol. 25, nr. 5, f. 1291-1297, ilustr. ISSN 1848-6339. [https://hrcak.srce.hr/207425](), DOI: [10.17559/TV-20161219111250](). [COBISS.SI-ID [15536923]()]

3. **JERMAN, Boris**, HRIBAR, Anton. Dynamics of the mathematical pendulum suspended from a moving mass. *Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku*. 2013, vol. 20, no. 1, str. 59-64, ilustr. ISSN 1330-3651. [http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=143490](). [COBISS.SI-ID [12724251]()]

Mole Nikolaj

1. KREBELJ, Kristjan, HALILOVIČ, Miroslav, **MOLE, Nikolaj**. The cooling rate dependence of the specific volume in amorphous plastic injection molding. *International journal of advanced manufacturing technology*. 2019, vol. 103, iss. 1/4, str. 1175-1184, ilustr. ISSN 0268-3768. [https://link.springer.com/article/10.1007%2Fs00170-019-03617-1](), DOI: [10.1007/s00170-019-03617-1](). [COBISS.SI-ID [16570395]()]

2. **MOLE, Nikolaj**, KREBELJ, Kristjan, ŠTOK, Boris. Injection molding simulation with solid semi-crystalline polymer mechanical behavior for ejection analysis. *The international journal of advanced manufacturing technology*. dec. 2017, vol. 93, iss. 9-12, str. 4111-4124, ilustr. ISSN 1433-3015. [https://link.springer.com/article/10.1007/s00170-017-0847-3](), DOI: [10.1007/s00170-017-0847-3](). [COBISS.SI-ID [15602459]()]

3. **MOLE, Nikolaj**, CAFUTA, Gašper, ŠTOK, Boris. A 3D forming tool optimisation method considering springback and thinning compensation. *Journal of materials processing technology*. Aug. 2014, vol. 214, iss. 8, str. 1673-1685, ilustr. ISSN 0924-0136. DOI: [10.1016/j.jmatprotec.2014.03.017](). [COBISS.SI-ID [13403419]()]

Pepelnjak Tomaž

1. STEINER PETROVIČ, Darja, ŠTURM, Roman, **PEPELNJAK, Tomaž**. Characterization of macroscopic mechanical anisotropy of magnetocaloric gadolinium cylinders. *JOM : The journal of minerals, metals and materials society*, ISSN 1047-4838, 2019, vol. 71, no. 9, str. 3151-3158, ilustr. [https://doi.org/10.1007/s11837-019-03521-9](), doi: [10.1007/s11837-019-03521-9](). [COBISS.SI-ID [1509034]()]

2. SATOŠEK, Roman, VALEŠ, Michal, **PEPELNJAK, Tomaž**. Study of influential parameters of the sphere indentation used for the control function of material properties in forming operations. *Strojniški vestnik*, ISSN 0039-2480, 2019, vol. 65, no. 10, str. 585-598, ilustr. [https://www.sv-jme. eu/sl/article/study-of-influential-parameters-of-the-sphere-indentation-used-for-the-control-function-of-material-properties-in-forming-oper ations/](), doi: [10.5545/sv-jme.2019.6312](). [COBISS.SI-ID [16805659]()]

3. **PEPELNJAK, Tomaž**, MAGOČ, Vladimir, BARIŠIĆ, Branimir. Analysis of shear hat test in digital environment. *Metalurgija*, ISSN 0543-5846, Apr.-Jun. 2012, vol. 51, no. 2, str. 153-156. [COBISS.SI-ID [12107547]()]

Peperko Aljoša

1. **PEPERKO, Aljoša**. Inequalities on the spectral radius, operator norm and numerical radius of the Hadamard weighted geometric mean of positive kernel operators. *Linear and Multilinear Algebra*, ISSN 0308-1087, 2019, vol. 67, iss. 8, str. 1637-1652. [https://doi.org/10.1080/03081087.2018.1465885](), doi:

[10.1080/03081087.2018.1465885](10.1080/03081087.2018.1465885). [COBISS.SI-ID [18356313](18356313)]

2. ŽUŽEK, Tena, **PEPERKO, Aljoša**, KUŠAR, Janez. A max-plus algebra approach for generating a non-delay schedule. *Croatian operational research review : CRORR*, ISSN 1848-0225. [Tiskana izd.], 2019, vol. 10, no. 1, str. 35-44, ilustr. https://hrcak.srce.hr/ojs/index.php/crorr/issue/view/377, doi: 10.17535/crorr.2019.0004. [COBISS.SI-ID [16696091](16696091)]

3. VOGLAR, Jure, ZUPANČIČ, Matevž, **PEPERKO, Aljoša**, BIRBARAH, Patrick, MILJKOVIC, Nenad, GOLOBIČ, Iztok. Analysis of heater-wall temperature distributions during the saturated pool boiling of water. *Experimental thermal and fluid science*, ISSN 0894-1777. [Print ed.], Apr. 2019, vol. 102, str. 205-214, ilustr. https://www.sciencedirect.com/science/article/pii/S089417771830270X, doi: 10.1016/j.expthermflusci.2018.11.012. [COBISS.SI-ID [16368923](16368923)]

Senegačnik Andrej

1. MELE, Jernej, **SENEGAČNIK, Andrej**. Design of a fast internal circulating fluidized-bed gasifier with a conical bed angle. *Thermal science*. 2019, vol. 23, iss. 1, str. 33-45, ilustr. ISSN 0354-9836. http://thermalscience.vinca.rs/online-first/2894, DOI: 10.2298/TSCI161129171M. [COBISS.SI-ID [16402459](16402459)]

2. KUŠTRIN, Igor, JURJEVČIČ, Boštjan, **SENEGAČNIK, Andrej**. An electrostatic measuring technique for monitoring particle size in dilute pneumatic transport. *Thermal science*. 2019, str. 1-14, ilustr. ISSN 0354-9836. http://www.doiserbia.nb.rs/Article.aspx?ID=0354-98361900332K#.XcPxJtV7laQ, DOI: 10.2298/TSCI190417332K. [COBISS.SI-ID [16889883](16889883)]

3. **SENEGAČNIK, Andrej**, OMAN, Janez, ŠIROK, Brane. Analysis of calcination parameters and the temperature profile in an annular shaft kiln. Part 2: Results of tests. *Applied thermal engineering*. [Print ed.]. 2007, letn. 27, št. 8/9, str. 1473-1482. ISSN 1359-4311. http://dx.doi.org/10.1016/applthermaleng.2006.09.026. [COBISS.SI-ID [9748251](9748251)]

Vrabič Rok

1. **VRABIČ, Rok**, KOZJEK, Dominik, BUTALA, Peter. Knowledge elicitation for fault diagnostics in plastic injection moulding : a case for machine-to-machine communication. CIRP annals, ISSN 0007-8506, 2017, vol. 66, iss. 1, str. 433-436, ilustr. http://ac.els-cdn.com/S000785061730001X/1-s2.0-S000785061730001X-main. pdf?_tid=cd2847e6-348c-11e7-aaa9-00000aacb360&acdnat=1494316680_7dd186475f057f97faa6af363539e6bb, doi: 10.1016/j.cirp.2017.04.001. [COBISS.SI-ID 15490587]

2. ŠKULJ, Gašper, **VRABIČ, Rok**, BUTALA, Peter, SLUGA, Alojzij. Decentralised network architecture for cloud manufacturing. International journal of computer integrated manufacturing, ISSN 0951-192X. [Print ed.], 2017, vol. 30, nr. 4/5, str. 395-408, ilustr. http://www.tandfonline.com/doi/pdf/10.1080/0951192X.2015.1066861, doi: 10.1080/0951192X.2015.1066861. [COBISS.SI-ID 14075675]

3. ZALETELJ, Viktor, **VRABIČ, Rok**, HOZDIĆ, Elvis, BUTALA, Peter. A Foundational ontology for the modelling of manufacturing systems. Advanced engineering informatics : the science of supporting knowledge-intensive activities, ISSN 1474-0346, Oct. 2018, vol. 38, str. 129-141, ilustr. https://www.sciencedirect.com/science/article/pii/S1474034616301264, doi: 10.1016/j.aei.2018.06.009. [COBISS.SI-ID 16126491]

Žerovnik Janez

1. YE, Ansheng, MIAO, Fang, SHAO, Zehui, LIU, Jia-Bao, **ŽEROVNIK, Janez**,

REPOLUSK, Polona. More results on the domination number of Cartesian product of two directed cycles. *Mathematics*, ISSN 2227-7390, 2019, vol. 7, no. 2, str. 1-9, doi: 10.3390/math7020210. [COBISS.SI-ID 24462088]

2. KALJUN, David, NOVAK, Tina, **ŽEROVNIK, Janez**. Improved approximation of spatial light distribution. *PloS one*, ISSN 1932-6203, Apr. 2017, vol. 12, nr. 4, f. 1-16, ilustr.
http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0176252, doi: 10.1371/journal.pone.0176252. [COBISS.SI-ID 15491355]

3. ERVEŠ, Rija, **ŽEROVNIK, Janez**. Mixed fault diameter of Cartesian graph bundles II. *Ars mathematica contemporanea*, ISSN 1855-3966. [Tiskana izd.], 2015, vol. 8, no. 2, str. 245-258.
http://amc-journal.eu/index.php/amc/article/view/390. [COBISS.SI-ID 18419478]

Petrović Igor

1. **PETROVIĆ, Igor**, ŠAJN, Viktor, KOSEL, Tadej, MARZOCCA, Pier. Aerodynamics and static aeroelastic behavior of low-Reynolds number deformable membrane wings. *Journal of aerospace engineering*. May 2016, vol. 29, iss. 3, str. 1-12, ilustr. ISSN 0893-1321.
http://ascelibrary.org/doi/10.1061/%28ASCE%29AS.1943-5525.0000555, DOI: 10.1061/(ASCE)AS.1943-5525.0000555. [COBISS.SI-ID 14280475], [JCR, SNIP, WoS do 27. 7. 2022: št. citatov (TC): 4, čistih citatov (CI): 4, čistih citatov na avtorja (CIAu): 1,00, Scopus do 21. 7. 2022: št. citatov (TC): 4, čistih citatov (CI): 4, čistih citatov na avtorja (CIAu): 1,00] (1.01)

2. **PETROVIĆ, Igor**, KOSEL, Franc, ŠAJN, Viktor. Aerodynamic investigation of the deformable membrane airfoil with excess length. *Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku*. 2015, vol. 22, no. 3, str. 573-580, ilustr. ISSN 1330-3651. DOI: 10.17559/TV-20131210105304. [COBISS.SI-ID 14036251], [JCR, SNIP, WoS do 9. 8. 2021: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0,33, Scopus do 3. 12. 2019: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0,33] (1.01)

3. **PETROVIĆ, Igor**, SHEA, Sean P., SMITH, Ian P., KOSEL, Franc, MARZOCCA, Pier. Numerical and experimental investigation of membrane wing for micro aerial vehicle applications. V: *ASME 2014 : IMECE2014*. International Mechanical Engineering Congress & Exposition, November 14-20, 2014, Montreal, Quebec, Canada. [New York etc.]: ASME, 2014. F. 1-6, ilustr. [COBISS.SI-ID 13862939], [Scopus do 31. 8. 2017: št. citatov (TC): 2, čistih citatov na avtorja (CIAu): 0,00] (1.08)

4. **PETROVIĆ, Igor**, CAMPAGNOLO, Filippo, KOSEL, Tadej, BOTTASSO, Carlo L. Implementation of the BEM skewed-wake model within the multibody aero-elastic solver Cp-Lambda. V: KOLHE, Mohan Lal (ur.). *ICACER 2020 : the 5th International Conference on Advances and Clean Energy Research : Barcelona, Spain, April 23-25, 2020*. Les Ulis: EDP Sciences, 2020. F. 1-6, ilustr. E3S Web of Conferences, Vol. 173, 2020. ISSN 2267-1242. https://www.e3s-conferences.org/articles/e3sconf/pdf/2020/33/e3sconf_icacer2020_02004.pdf, DOI: 10.1051/e3sconf/202017302004. [COBISS.SI-ID 20780547], [SNIP, WoS, Scopus] (1.08)