RAZISKAVE V STROJNIŠTVU

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	Raziskave v strojništvu
Course title:	Research in Mechanical Engineering
Članica nosilka/UL Member:	UL FS

Študijski programi in stopnja	Študijska smer	Letnik	Semestri	Izbirnost
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Energetsko strojništvo (smer)	2. letnik	2. semester	obvezni
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Konstruiranje (smer)	2. letnik	2. semester	obvezni
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Mehanika (smer)	2. letnik	2. semester	obvezni
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Mehatronika in laserska tehnika (smer)	2. letnik	2. semester	obvezni
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Procesno strojništvo (smer)	2. letnik	2. semester	obvezni
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Proizvodno strojništvo (smer)	2. letnik	2. semester	obvezni

Univerzitetna koda predmeta/University course code:	0566826
Koda učne enote na članici/UL Member course code:	6011-M

Predavanja /Lectures	Seminar /Seminar	Vaje /Tutorials	Klinične vaje /Clinical tutorials	Druge oblike študija /Other forms of study	Samostojno delo /Individual student work	ECTS
90		90			195	15

Nosilec predmeta/Lecturer:	doc. dr. Vid Agrež, izr. prof. dr. Ciril Arkar, doc. dr. Tomaž Berlec, doc. dr. Drago Bračun, izr. prof. dr. Miha Brojan, prof. dr. Gregor Čepon, doc. dr. Martin Česnik, prof. dr. Matevž Dular, prof. dr. Iztok Golobič, prof. dr. Edvard Govekar, izr. prof. dr. Peter Gregorčič, izr. prof. dr. Miroslav Halilovič, prof. dr. Niko Herakovič, prof. dr. Marko Hočevar, izr. prof. dr. Boris Jerman, prof. dr. Matija Jezeršek, prof. dr. Mitjan Kalin, prof. dr. Tomaž Katrašnik, doc. dr. Tomaž Kek, prof. dr. Andrej Kitanovski, prof. dr. Jernej Klemenc, doc. dr. Katja Klinar, izr. prof. dr. Damjan Klobčar, doc. dr. Dominik Kozjek, izr. prof. dr. Davorin Kramar, doc. dr. Andraž Kravos, izr. prof. dr. Robert Kunc, izr. prof. dr. Jože Kutin, izr. prof. dr. Franc Majdič, doc. dr. Boštjan Mavrič, prof. dr. Sašo Medved, izr. prof. dr. Nikolaj Mole, izr. prof. dr. Mitja Mori, prof. dr. Marko Nagode, izr. prof. dr. Simon Oman, izr. prof. dr. Tomaž Pepelnjak, izr. prof. dr. Aljoša Peperko, prof. dr. Rok Petkovšek, prof. dr. Primož Podržaj, doc. dr. Marko Polajnar, doc. dr. Primož Potočnik, izr. prof. dr. Jurij Prezelj, prof. dr. Franci Pušavec, doc. dr. Darja Rupnik Poklukar, prof. dr. Mihael Sekavčnik, prof. dr. Janko Slavič, doc. dr. Lidija Slemenik Perše, izr. prof. dr. Uroš Stritih, prof. dr. Božidar Šarler, izr. prof. dr. Domen Šeruga, izr. prof. dr. Marko Šimic, prof. dr. Roman Šturm, doc. dr. Jovan Trajkovski, Jaka Tušek, izr. prof. dr. Joško Valentinčič, izr. prof. dr. Rok Vrabič, izr.

	prof. dr. Nikola Vukašinović, izr. prof. dr. Matevž Zupančič, prof. ddr. Janez Žerovnik

Izvajalci predavanj:	
Izvajalci seminarjev:	
Izvajalci vaj:	
Izvajalci kliničnih vaj:	
Izvajalci drugih oblik:	
Izvajalci praktičnega usposabljanja:	

Vrsta predmeta/Course type:	Obvezni splošni predmet /Compulsory general course

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

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisites:**
V sklopu predmeta se student spozna s širšim področjem določenega dela tematike, ki jo bo obdelal v magistrski nalogi. Zato so pogoj za vključitev v delo opravljene študijske obveznosti 1. in 2. semestra MAG študijskega programa.	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 master's thesis. Therefore, the requirement for the course is completed study obligations of the 1st and 2nd semester of the MAG study program.

Vsebina:	**Content (Syllabus outline):**
Glede na širši vidik obravnavane raziskovalne tematike magistrskega dela študent izbere enega nosilca tega predmeta, ki prevzame vlogo mentorja. Predmet se izvaja pri treh izvajalcih, pri čemer sta študentu poleg mentorja dodeljena še dva soizvajalca glede na strokovno področje izbrane teme. 1. Predstavitev ciljev predmeta in posameznih raziskovalnih tematik, ki jih bodo študentje opravljali tekom leta. 2. Pregled znanstvene 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. Analitične metode modeliranja sistemov/procesov izbrane tematike*. 8. Numerične metode modeliranja sistemov/procesov izbrane tematike*. * Glede na predvidene naloge so podani poudarki na eksperimentalnih, računalniških ali analitičnih raziskovalnih vsebinah. 9. Interaktivna predstavitev povzetka obdelanih specializiranih vsebin z individualno ali skupinsko	According to the broader aspect of the research topic of the master's thesis, the student chooses one of the course lecturers, who assumes the role of supervisor. The course is delivered by three lecturers; in addition to the mentor, the student is assigned two co-mentors based on the specialized field of the selected topic. 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. Analytical methods for modelling systems / processes of the selected topic *. 8. Numerical methods for modelling systems / processes of the selected topic *. * According to the selected assignment, emphasis are placed on experimental, computer or analytical research. 9. An interactive presentation of a summary of studied specialized content with individual or group discussion.

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. Korelacija eksperimentalnih rezultatov s teoretičnimi napovedmi. 14. Interaktivna predstavitev eksperimentalnih, računalniških ali analitičnih orodij ter primerjava z ugotovitvami iz dostopne literature. 15. Pregled izzivov za prihodnost na področju izbrane raziskovalne tematike.	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. Correlation of experimental results with theoretical predictions. 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 literaturo na delu tematike, ki bo obravnavana v magistrski nalogi. 2. Seznanitev z namensko opremo na področju eksperimentiranja in uporabe računalniških orodij. Študent tako spozna posebnosti, ki jih lahko uporabi. 3. Predmet se izvaja v laboratoriju (enem ali več) odvisno od dogovora z mentorjem in nosilci predmeta. **Kompetence:** S1-MAG: Sposobnost za opredelitev, razumevanje temeljnih znanstvenih problemov in ustvarjalno reševanje strokovnih izzivov. S2-MAG: Širitev sposobnosti kritičnega, analitičnega in sintetičnega mišljenja. Razvijanje novega znanja in razumevanja področja. Razvijanje višjih kognitivnih veščin, povezanih z ustvarjanjem novega znanja. S8-MAG: Sposobnost iskanja virov, kritične presoje informacij, samostojnega nadgrajevanja pridobljenih znanj in poglabljanja znanja na posameznih specializiranih področjih strojništva S10-MAG: Sposobnost uporabe sodobnih raziskovalnih metod in postopkov. Zmožnost raziskovanja in prenašanja spoznanj v prakso. P1-MAG: Sposobnost za nadgrajevanje in uporabo temeljnih strojniških znanj ter njihovo razvojno−tehniško implementacijo. P4-MAG: Sposobnost fizikalnega, matematičnega in numeričnega modeliranja problemov z razvito sposobnostjo kritične analize rezultatov.	**Objectives:** 1. To enable the student to get acquainted with the basic and specific literature on the topic that will be discussed in the master's thesis. 2. To familiarize with the specific equipment in the field of experimentation and use of computer tools. Thus the student learns about the special features that 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-MAG: The ability to define and understand fundamental scientific problems, and to creatively deal with professional challenges. S2-MAG: Improved capability of critical, analytical and synthetical thinking. Development of new knowledge and comprehension of the professional field. Development of higher cognitive skills, related to the creation of new knowledge S8-MAG: The ability to find sources, critically evaluate information, independently upgrade the attained knowledge and deepen the knowledge in the individual specialised fields of mechanical engineering. S10-MAG: The ability to use modern research methods and procedures. Capacity to research and transfer the findings into practice. P1-MAG: The ability to upgrade and use the fundamental mechanical engineering knowledge, including the developmental-technical implementation thereof.

P7-MAG: Na osnovi analize in sinteze razvita sposobnost iskanja optimalnejših rešitev.	P4-MAG: The ability for physical, mathematical and numerical modelling of problems, including a developed ability to critically analyse the results. P7-MAG: The ability to find optimal solutions based on analysis and synthesis.

Predvideni študijski rezultati:	**Intended learning outcomes:**
Znanja: Z2: Poglobljeno teoretično, metodološko in analitično znanje z elementi raziskovanja, ki je osnova za zelo zahtevno strokovno delo. Spretnosti: S2.1 Obvladovanje zelo zahtevnih, kompleksnih delovnih procesov in metodoloških orodij na specializiranih področjih. S2.2 Načrtovanje in vodenje delovnega procesa na podlagi ustvarjalnega reševanja problemov, povezanih s področjem izobraževanja in usposabljanja. S2.3 Sposobnost izvirnih dognanj/stvaritev in kritične refleksije.	Knowledge: Z2: Thorough theoretical, methodological and analytical knowledge with elements of a research work that form a basis for very demanding professional work Skills: S2.1 Mastering very demanding and complex work processes and methodological tools in specialised professional fields. S2.2 Planning and managing of the working process on the basis of creative solving of problems that are linked to the teaching and training content. S2.3 Ability of unique innovations and critical reflections.

Metode poučevanja in učenja:	**Learning and teaching methods:**
Klasične oblike poučevanja: P1 Avditorna predavanja z reševanjem izbranih - za področje značilnih - teoretičnih in praktično uporabnih primerov. P2 Obravnava snovi po urejeni in vnaprej razloženi sistematiki. P5 Uporaba študijskega gradiva v obliki skript, knjig, zapiskov, strokovnih člankov in predstavitev predavanj. **Moderne in prožne oblike poučevanja:** P6 Interaktivna predavanja P7 Študij literature in razprava P8 Izdelava in predstavitev aplikativnih seminarskih nalog P14 Virtualni eksperimenti	**Conventional teaching methods:** P1 Auditorial lectures with solving selected field-specific theoretical and applied use cases. P2 Presenting the content according to the explained system. P5 Application of study material in form of scripts, textbooks, notes, professional artcles and printed lecture presentations. **Contemporary and flexible teaching methods:** P6 Interactive lectures. P7 Literature study and discussion. P8 Making and presenting applied seminar exercises. P14 Virtual experiments.

Načini ocenjevanja:	**Delež/Weight**	**Assessment:**
Ocena predstavitve končnih rezultatov.	50,00 %	Presentation of final results.
Ocena končnega poročila.	50,00 %	Evaluation of final report.

Ocenjevalna lestvica:	**Grading system:**
5 - 10, pri čemer velja, da je pozitivna ocena od 6 - 10	5 - 10, a student passes the exam if he is graded from 6 to 10

Reference nosilca/Lecturer's references:

Vid Agrež:

1. **AGREŽ, Vid**, LOKAR, Žiga, PETKOVŠEK, Rok. Laser induced microbubbles as an alternative driver for liquid pumping. *Optics and laser technology*. [Print ed.]. Oct. 2024, vol. 177, [article no.] 111235, str. 1-9, ilustr. ISSN 0030-3992. https://www.sciencedirect.com/science/article/pii/S0030399224006935, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.optlastec.2024.111235
2. POŽAR, Tomaž, **AGREŽ, Vid**, PETKOVŠEK, Rok. Laser-induced cavitation bubbles and shock waves in water near a concave surface. *Ultrasonics Sonochemistry*. May 2021, vol. 73, str. 1-11, ilustr. ISSN 1350-

4177. https://www.sciencedirect.com/science/article/pii/S1350417720317612, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ultsonch.2020.105456. [COBISS.SI-ID 45742083].
3. HORVAT, Darja, **AGREŽ, Vid**, POŽAR, Tomaž, STARMAN, Bojan, HALILOVIČ, Miroslav, PETKOVŠEK, Rok. Laser-induced shock-wave-expanded nanobubbles in spherical geometry. *Ultrasonics Sonochemistry*. Sep. 2022, vol. 89, str. 1-12, ilustr. ISSN 1350-4177. https://www.sciencedirect.com/science/article/pii/S1350417722002565, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ultsonch.2022.106160. [COBISS.SI-ID 122021123].

Ciril Arkar:
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, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/en12163194. [COBISS.SI-ID 16752155].
2. 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].
3. DOMJAN, Suzana, **ARKAR, Ciril**, MEDVED, Sašo. Computer-aided supporting tool for LCA evaluation of energy efficiency of the buildings : assessment method and case studies. V: PASSER, Alexander (ur.). SBE19 Graz : transition towards a net zero carbon built environment : conference proceedings. Sustainable built environment D-A-CH conference 2019, Graz 11-14 September 2019, Graz, Austria. [S. l.]: IOP, 2019. Vol. 323, f. 1-9, ilustr. IOP conference series. Earth and environmental science (Online), vol. 323. ISSN 1755-1315. https://iopscience.iop.org/article/10.1088/1755-1315/323/1/012109, DOI: 10.1088/1755-1315/323/1/012109. [COBISS.SI-ID 16793371].

Tomaž Berlec:
1. ZUPAN, Hugo, HERAKOVIČ, Niko, ŽEROVNIK, Janez, **BERLEC, Tomaž**. *Layout optimization of a production cell*. International journal of simulation modelling. Dec. 2017, vol. 16, nr. 4, str. 603-616, ilustr. ISSN 1726-4529. http://www.ijsimm.com/Full_Papers/Fulltext2017/text16-4_603-616.pdf. [COBISS.SI-ID 15898139], [JCR, SNIP, WoS do 26. 10. 2022: št. citatov (TC): 12, čistih citatov (CI): 11, čistih citatov na avtorja (CIAu): 2,75, Scopus do 23. 12. 2022: št. citatov (TC): 19, čistih citatov (CI): 18, čistih citatov na avtorja (CIAu): 4,50].
2. ŽUŽEK, Tena, GOSAR, Žiga, KUŠAR, Janez, **BERLEC, Tomaž**. *Adopting agile project management practices in non-software SMEs : a case study of a slovenian medium-sized manufacturing company*. Sustainability. 2020, vol. 12, iss. 21, str. 1-17, ilustr. ISSN 2071-1050. https://www.mdpi.com/2071-1050/12/21/9245, DOI: 10.3390/su12219245. [COBISS.SI-ID 36195331], [JCR, SNIP, WoS do 6. 12. 2022: št. citatov (TC): 10, čistih citatov (CI): 9, čistih citatov na avtorja (CIAu): 2,25, Scopus do 31. 1. 2023: št. citatov (TC): 13, čistih citatov (CI): 12, čistih citatov na avtorja (CIAu): 3,00].
3. ŽUŽEK, Tena, KUŠAR, Janez, RIHAR, Lidija, **BERLEC, Tomaž**. *Agile-concurrent hybrid : a framework for concurrent product development using scrum*. Concurrent engineering : research and applications. Dec. 2020, vol. 28, iss. 4, str. 255-264, ilustr. ISSN 1063-293X. https://journals.sagepub.com/doi/full/10.1177/1063293X20958541,DOI: 10.1177/1063293X20958541. [COBISS.SI-ID 32321027], [JCR, SNIP, WoS do 26. 10. 2022: št. citatov (TC): 3, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 0,50, Scopus do 23. 1. 2023: št. citatov (TC): 8, čistih citatov (CI): 7, čistih citatov na avtorja (CIAu): 1,75].
4. ŽUŽEK, Tena, RIHAR, Lidija, **BERLEC, Tomaž**, KUŠAR, Janez. *Use of a standard risk model and a risk map for product development project planning and management*. V: ZADNIK STIRN, Lidija (ur.), et al. SOR '19 proceedings. Ljubljana: Slovenian Society Informatika, Section for Operational Research, 2019. Str. 269-274, ilustr. ISBN 978-961-6165-55-6. [COBISS.SI-ID 16810779], [Scopus].
5. KOŽELJ, Nejc, **BERLEC, Tomaž**. *Vpliv krajšanja časa menjave orodja na lastno ceno storitve*. V: BERLEC, Tomaž (ur.), BROJAN, Miha (ur.), DROBNIČ, Boštjan (ur.). ŠTeKam : Študentska tehniška konferenca : Fakulteta za strojništvo, Ljubljana, 8. 9. 2022. Ljubljana: Fakulteta za strojništvo, 2022. Str. 71-78, ilustr. ISBN 978-961-6980-90-6. [COBISS.SI-ID 121396483].

Drago Bračun:
1. **BRAČUN, Drago**, SELAK, Luka. Optical probing for CNC machining of large parts made from fiber-reinforced polymer composite materials. *International journal of advanced manufacturing technology*, ISSN 0268-3768, 2019, vol. 100, iss. 5/8, str. 1855-1865, ilustr.

https://link.springer.com/content/pdf/10.1007%2Fs00170-018-2789-9.pdf, doi: 10.1007/s00170-018-2789-9. [COBISS.SI-ID 16273435]

2. **BRAČUN, Drago**, ŠKULJ, Gašper, KADIŠ, Miran. Spectral selective and difference imaging laser triangulation measurement system for on line measurement of large hot workpieces in precision open die forging. *International journal of advanced manufacturing technology*, ISSN 0268-3768, apr. 2017, vol. 90, iss. 1-4, 917-926 str, ilustr. http://link.springer.com/article/10.1007%2Fs00170-016-9460-0, doi: 10.1007/s00170-016-9460-0. [COBISS.SI-ID 14855195].
3. **BRAČUN, Drago**, SLUGA, Alojzij. Stereo vision based measuring system for online welding path inspection. *Journal of materials processing technology*, ISSN 0924-0136, Sep. 2015, vol. 223, str. 328-336, ilustr., doi: 10.1016/j.jmatprotec.2015.04.023. [COBISS.SI-ID 13971995].

Miha Brojan:

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.201401403. [COBISS.SI-ID 13725211]

Gregor Čepon:

1. KORBAR, Jure, OCEPEK, Domen, **ČEPON, Gregor**, BOLTEŽAR, Miha. Training artificial neural networks using substructuring techniques : application to joint identification. *Mechanical systems and signal processing*. Sep. 2023, vol. 198, str. 1-18, ilustr. ISSN 1096-1216. https://www.sciencedirect.com/science/article/pii/S0888327023003345, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ymssp.2023.110426. [COBISS.SI-ID 153289219], [JCR, SNIP, WoS, Scopus do 26. 10. 2023: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0.25]
2. OCEPEK, Domen, **ČEPON, Gregor**, BOLTEŽAR, Miha. Characterization of sensor location variations in admittance-based TPA methods. *Journal of sound and vibration*. [Print ed.]. Jun. 2022, vol. 528, str. 1-15, ilustr. ISSN 0022-460X. https://www.sciencedirect.com/science/article/pii/S0022460X22001298, DOI: 10.1016/j.jsv.2022.116888. [COBISS.SI-ID 102695939], [JCR, SNIP, WoS do 15. 7. 2023: št. citatov (TC): 2, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0.00, Scopus do 12. 7. 2023: št. citatov (TC): 2, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0.00]
3. KODRIČ, Miha, BREGAR, Tomaž, **ČEPON, Gregor**, BOLTEŽAR, Miha. An expansion based on system equivalent model mixing : from a limited number of points to a full-field dynamic response. *Measurement : journal of the International Measurement Confederation*. [Print ed.]. Feb. 2022, vol. 190, str. 1-13, ilustr. ISSN 0263-2241. https://www.sciencedirect.com/science/article/pii/S0263224121014019, DOI: 10.1016/j.measurement.2021.110522. [COBISS.SI-ID 93039619], [JCR, SNIP, WoS do 6. 2. 2024: št. citatov (TC): 2, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0.00, Scopus do 10. 12. 2023: št. citatov (TC): 2, čistih citatov (CI): 0, čistih citatov na avtorja (CIAu): 0.00]
4. POGAČAR, Miha, **ČEPON, Gregor**, BOLTEŽAR, Miha. Weakening of the multi-point constraints in modal substructuring using singular value decomposition. *Mechanical systems and signal processing*. 15. jan. 2022, vol. 163, str. 1-17, ilustr. ISSN 0888-3270. https://www.sciencedirect.com/science/article/pii/S088832702100491X, DOI: 10.1016/j.ymssp.2021.108109. [COBISS.SI-ID 66995203], [JCR, SNIP, WoS do 2. 5. 2023: št. citatov (TC): 4, čistih citatov (CI): 4, čistih citatov na avtorja (CIAu): 1.33, Scopus do 2. 4. 2023: št. citatov (TC): 4, čistih citatov (CI): 4, čistih citatov na avtorja (CIAu): 1.33]
5. **ČEPON, Gregor**, OCEPEK, Domen, KORBAR, Jure, BREGAR, Tomaž, BOLTEŽAR, Miha. Sensitivity-based characterization of the bias errors in frequency based substructuring. *Mechanical systems and signal processing*. May 2022, vol. 170, str. 1-18, ilustr. ISSN 0888-3270. https://www.sciencedirect.com/science/article/pii/S0888327021011092?dgcid=author, DOI: 10.1016/j.ymssp.2021.108800. [COBISS.SI-ID 97635843], [JCR, SNIP, Scopus do 4. 6. 2024: št. citatov (TC): 3, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0.20]

Martin Česnik:

1. **ČESNIK, Martin**, SLAVIČ, Janko, BOLTEŽAR, Miha. Accelerated vibration-fatigue characterization for 3D-printed structures : application to fused-filament-fabricated PLA samples. International journal of fatigue. 2023, vol. 171, str. 1-12, ilustr. ISSN 0142-1123. https://www.sciencedirect.com/science/article/pii/S0142112323000750, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ijfatigue.2023.107574. [COBISS.SI-ID 141842691].
2. OGRINEC, Primož, SLAVIČ, Janko, **ČESNIK, Martin**, BOLTEŽAR, Miha. Vibration fatigue at half-sine impulse excitation in the time and frequency domains. *International journal of fatigue*. Jun. 2019, vol. 123, str. 308-317, ilustr. ISSN 0142-1123. https://www.sciencedirect.com/science/article/pii/S0142112319300568?via%3Dihub, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ijfatigue.2019.02.031. [COBISS.SI-ID 16539419].
3. CAPPONI, Lorenzo, **ČESNIK, Martin**, SLAVIČ, Janko, CIANETTI, Filippo, BOLTEŽAR, Miha. Non-stationarity index in vibration fatigue : theoretical and experimental research. *International journal of fatigue*. 2017, vol. 104, str. 221-230, ilustr. ISSN 0142-1123. http://ac.els-cdn.com/S014211231730316X/1-s2.0-S014211231730316X-main.pdf?_tid=b85fe616-71d1-11e7-a6b3-00000aacb361&acdnat=1501053301_720f5a283c882ec3bb0d61896f82b7e0, DOI: 10.1016/j.ijfatigue.2017.07.020. [COBISS.SI-ID 15586587].

Matevž Dular:

1. YU, Haidong, QUAN, Xiaobo, WEI, Haipeng, **DULAR, Matevž**, FU, Song. Development of a novel nonlinear dynamic cavitation model and its numerical validations. Advances in applied mathematics and mechanics. Jun. 2024, vol. 16, nr. 3, str. 771-804, ilustr. ISSN 2070-0733. https://global-sci.org/intro/article_detail/aamm/22937.html, DOI: 10.4208/aamm.OA-2023-0041. [COBISS.SI-ID 190082819].
2. ZEVNIK, Jure, PATFOORT, Julien, ROSSELLÓ, Juan Manuel, OHL, Claus-Dieter, **DULAR, Matevž**. Dynamics of a cavitation bubble confined in a thin liquid layer at null Kelvin impulse. Physics of fluids. Jun. 2024, vol. 36, iss. 6, [article no.] 063340, str. 1-20, ilustr. ISSN 1070-6631. https://pubs.aip.org/aip/pof/article/36/6/063340/3299546/Dynamics-of-a-cavitation-bubble-confined-in-a-thin, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1063/5.0209287. [COBISS.SI-ID 200352771].
3. GOSTIŠA, Jurij, ŠIROK, Brane, BIZJAN, Benjamin, ORTAR, Jernej, **DULAR, Matevž**, ZUPANC, Mojca. Multiparametric experimental analysis of the pin disc rotational cavitation generator. Engineering science and technology : an international journal. Feb. 2023, vol. 38, str. 1-13, ilustr. ISSN 2215-0986. https://www.sciencedirect.com/science/article/pii/S2215098622002324, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.jestch.2022.101323. [COBISS.SI-ID 137051651].

Iztok Golobič:

1. MOŽE, Matic, ZUPANČIČ, Matevž, HOČEVAR, Matej, **GOLOBIČ, Iztok**, GREGORČIČ, Peter. Surface chemistry and morphology transition induced by critical heat flux incipience on laser-textured copper surfaces. *Applied Surface Science*. [Print ed.]. Oct. 2019, vol. 490, str. 220-230, ilustr. ISSN 0169-4332. https://www.sciencedirect.com/science/article/pii/S0169433219317623?via%3Dihub, DOI: 10.1016/j.apsusc.2019.06.068. [COBISS.SI-ID 16653083]
2. SITAR, Anže, MOŽE, Matic, CRIVELLARI, Michele, SCHILLE, Jörg, **GOLOBIČ, Iztok**. Nucleate pool boiling heat transfer on etched and laser structured silicon surfaces. *International journal of heat and mass transfer*. [Print ed.]. Feb. 2020, vol. 147, str. 1-12, ilustr. ISSN 0017-9310. https://www.sciencedirect.com/science/article/pii/S0017931019344229?dgcid=author, DOI: 10.1016/j.ijheatmasstransfer.2019.118956. [COBISS.SI-ID 16885531]
3. VOGLAR, Jure, GREGORČIČ, Peter, ZUPANČIČ, Matevž, **GOLOBIČ, Iztok**. Boiling performance on surfaces with capillary-length-spaced one- and two-dimensional laser-textured patterns. *International journal of heat and mass transfer*. [Print ed.]. Dec. 2018, vol. 127, part a, str. 1188-1196, ilustr. ISSN 0017-9310. https://www.sciencedirect.com/science/article/pii/S0017931018315357, DOI: 10.1016/j.ijheatmasstransfer.2018.07.056. [COBISS.SI-ID 16149019]

Edvard Govekar:

1. KOTAR, Matjaž, FUJISHIMA, Makoto, LEVY, Gideon N., **GOVEKAR, Edvard**. Initial transient phase and stability of annular laser beam direct wire deposition. *CIRP annals*. 2019, vol. 68, iss. 1, str. 233-236, ilustr. ISSN 0007-8506.

https://www.sciencedirect.com/science/article/pii/S0007850619301507?via%3Dihub, DOI: 10.1016/j.cirp.2019.04.118. [COBISS.SI-ID 16601883]
2. JEROMEN, Andrej, **GOVEKAR, Edvard**. Time series analysis based study of a mass-spring-like oscillation and detachment of a metal pendant droplet. *Mechanical systems and signal processing*. Dec. 2016, vol. 80, str. 503-516, ilustr. ISSN 0888-3270. http://www.sciencedirect.com/science/article/pii/S0888327016300772, DOI: 10.1016/j.ymssp.2016.04.038. [COBISS.SI-ID 14623515]
3. POTOČNIK, Primož, SOLDO, Božidar, ŠIMUNOVIĆ, Goran, ŠARIĆ, Tomislav, JEROMEN, Andrej, **GOVEKAR, Edvard**. Comparison of static and adaptive models for short-term residential natural gas forecasting in Croatia. *Applied energy*. Sep. 2014, vol. 129, str. 94-103, ilustr. ISSN 0306-2619. [COBISS.SI-ID 13478939]

Peter Gregorčič:
1. SENEGAČNIK, Matej, **GREGORČIČ, Peter**. Diffraction-driven laser surface nanostructuring : towards patterning with curved periodic surface structures = Matej Senegačnik, Peter Gregorčič. *Applied Surface Science*. [Print ed.]. Feb. 2023, vol. 610, str. 1-10, ilustr. ISSN 0169-4332. https://www.sciencedirect.com/science/article/pii/S0169433222030148, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.apsusc.2022.155486. [COBISS.SI-ID 129205507].
2. **GREGORČIČ, Peter**. Comment on "Bioinspired reversible switch between underwater superoleophobicity/superaerophobicity and oleophilicity/aerophilicity and improved antireflective property on the nanosecond laser-ablated superhydrophobic titanium surfaces". *ACS applied materials & interfaces*. Jan. 2021, vol. 13, iss. 2, str. 2117-2127, ilustr. ISSN 1944-8244. https://pubs.acs.org/doi/10.1021/acsami.9b23462, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1021/acsami.9b23462. [COBISS.SI-ID 17112859].
3. SENEGAČNIK, Matej, KUNIMOTO, Kohei, YAMAGUCHI, Satoshi, KIMURA, Koki, SAKKA, Tetsuo, **GREGORČIČ, Peter**. Dynamics of laser-induced cavitation bubble during expansion over sharp-edge geometry submerged in liquid - an inside view by diffuse illumination. *Ultrasonics Sonochemistry*. May 2021, vol. 73, str. 1-16, ilustr. ISSN 1350-4177. https://www.sciencedirect.com/science/article/pii/S1350417721000018, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ultsonch.2021.105460. [COBISS.SI-ID 46704131].

Miroslav Halilovič:
1. **HALILOVIČ, Miroslav**, STARMAN, Bojan, VRH, Marko, ŠTOK, Boris. A robust explicit integration of elasto-plastic constitutive models, based on simple subincrement size estimation. *Engineering computations*. 2017, vol. 34, iss. 6, str. 1774-1806, ilustr. ISSN 0264-4401. http://www.emeraldinsight.com/doi/pdfplus/10.1108/EC-03-2016-0103, DOI: 10.1108/EC-03-2016-0103. [COBISS.SI-ID 15583259]
2. STARMAN, Bojan, **HALILOVIČ, Miroslav**, VRH, Marko, ŠTOK, Boris. Consistent tangent operator for cutting-plane algorithm of elasto-plasticity. *Computer methods in applied mechanics and engineering*. [Print ed.]. Apr. 2014, vol. 272, str. 214-232, ilustr. ISSN 0045-7825. DOI: 10.1016/j.cma.2013.12.012. [COBISS.SI-ID 13311515]
3. **HALILOVIČ, Miroslav**, VRH, Marko, ŠTOK, Boris. NICEh - a higher-order explicit numerical scheme for integration of constitutive models in plasticity. *Engineering with computers*. 2013, vol. 29, iss. 1, str. 55-70, ilustr. ISSN 0177-0667. https://link.springer.com/article/10.1007%2Fs00366-011-0243-9, DOI: 10.1007/s00366-011-0243-9. [COBISS.SI-ID 11946779]

Niko Herakovič:
1. **HERAKOVIČ, Niko**, ZUPAN, Hugo, PIPAN, Miha, PROTNER, Jernej, ŠIMIC, Marko. Distributed manufacturing systems with digital agents. *Strojniški vestnik*. Nov./Dec. 2019, vol. 65, no. 11/12, str. 650-657, ilustr. ISSN 0039-2480. https://www.sv-jme.eu/sl/article/distributed-manufacturing-systems-with-digital-agents/, DOI: 10.5545/sv-jme.2019.6331. [COBISS.SI-ID 16942875]
2. RESMAN, Matevž, PIPAN, Miha, ŠIMIC, Marko, **HERAKOVIČ, Niko**. A new architecture model for smart manufacturing : a performance analysis and comparison with the RAMI 4.0 reference model. *Advances in production engineering & management*. Jun. 2019, vol. 14, no. 2, str. 153-165, ilustr. ISSN 1854-6250. http://apem-journal.org/Archives/2019/APEM14-2_153-165.pdf, DOI: 10.14743/apem2019.2.318. [COBISS.SI-ID 16766235]
3. ŠIMIC, Marko, **HERAKOVIČ, Niko**. Reduction of the flow forces in a small hydraulic seat valve as alternative approach to improve the valve characteristics. *Energy conversion and management*. [Print ed.]. 2015,

vol. 89, str. 708-718, ilustr. ISSN 0196-8904. https://www.sciencedirect.com/science/article/pii/S0196890414009182?via%3Dihub, DOI: 10.1016/j.enconman.2014.10.037. [COBISS.SI-ID 13766683]

Marko Hočevar:

1. TRAJKOVSKI, Ana, BARTOLJ, Jan, LEVSTEK, Tomaž, GODEŠA, Tone, SEČNIK, Matej, **HOČEVAR, Marko**, MAJDIČ, Franc. Mechanical inter- and intra-row weed control for small-scale vegetable producers. Agriculture. 2024, vol. 14, iss. 9, [article no.] 1483, str. 1-14, ilustr. ISSN 2077-0472. https://www.mdpi.com/2077-0472/14/9/1483, DOI: 10.3390/agriculture14091483. [COBISS.SI-ID 206591747].
2. DREŠAR, Primož, **HOČEVAR, Marko**, BLAGOJEVIČ, Marko, BIZJAN, Benjamin. Numerical modeling of laminar free overfall in triangular channels. Ain Shams Engineering Journal. Apr. 2024, vol. 15, iss. 4, art. 102650, str. 1-11, ilustr. ISSN 2090-4495. https://www.sciencedirect.com/science/article/pii/S209044792400025X, DOI: 10.1016/j.asej.2024.102650. [COBISS.SI-ID 183107075].
3. BIZJAN, Benjamin, **HOČEVAR, Marko**, KOLBL REPINC, Sabina, RAK, Gašper. On the effect of aeration on laser ranging measurements of free water surface. Flow measurement and instrumentation. Feb. 2024, vol. 95, [article no.] 102502, str. 1-8, ilustr. ISSN 0955-5986. https://www.sciencedirect.com/science/article/pii/S095559862300198X, DOI: 10.1016/j.flowmeasinst.2023.102502. [COBISS.SI-ID 177070595].

Boris Jerman:

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]

Matija Jezeršek:

1. SENEGAČNIK, Matej, **JEZERŠEK, Matija**, GREGORČIČ, Peter. Propulsion effects after laser ablation in water, confined by different geometries. *Applied physics.A, Materials science & processing*. Feb. 2020, vol. 126, iss. 2, str. 1-12, ilustr. ISSN 0947-8396. https://link.springer.com/article/10.1007%2Fs00339-020-3309-y, DOI: 10.1007/s00339-020-3309-y. [COBISS.SI-ID 17026587]
2. RAK, Gašper, STEINMAN, Franci, HOČEVAR, Marko, DULAR, Matevž, **JEZERŠEK, Matija**, PAVLOVČIČ, Urban. Laser ranging measurements of turbulent water surfaces. *European journal of mechanics.B, Fluids*. feb. 2020, letn. xx, št. xx, str. 1-12, ilustr. ISSN 0997-7546. https://www.sciencedirect.com/journal/european-journal-of-mechanics-b-fluids/articles-in-press, DOI: 10.1016/j.euromechflu.2020.02.001. [COBISS.SI-ID 9085793]
3. LUKAČ, Matjaž, LUKAČ, Nejc, **JEZERŠEK, Matija**. Characteristics of bubble oscillations during laser-activated irrigation of root canals and method of improvement. *Lasers in surgery and medicine*. 2020, f. 1-9, ilustr. ISSN 1096-9101. https://onlinelibrary.wiley.com/doi/full/10.1002/lsm.23226, DOI: 10.1002/lsm.23226. [COBISS.SI-ID 17039899]

Mitjan Kalin:

1. BRODNIK ŽUGELJ, Blaž, **KALIN, Mitjan**. Submicron-scale experimental analyses of multi-asperity contacts with different roughnesses. *Tribology international*, ISSN 0301-679X, Mar. 2018, vol. 119, str. 667-671, ilustr. http://www.sciencedirect.com/science/article/pii/S0301679X17303249?via%3Dihub, doi: 10.1016/j.triboint.2017.06.036. [COBISS.SI-ID 15800091]
2. **KALIN, Mitjan**, POLJANEC, Dejan. Influence of the contact parameters and several graphite materials on the tribological behaviour of graphite/copper two-disc electrical contacts. *Tribology international*, ISSN

0301-679X, Oct. 2018, vol. 126, str. 192-205, ilustr. https://www.sciencedirect.com/science/article/pii/S0301679X18302524?via%3Dihub, doi: 10.1016/j.triboint.2018.05.024. [COBISS.SI-ID 16085531]

3. **KALIN, Mitjan**, POGAČNIK, Aljaž, ETSION, I., RAEYMAEKERS, B. Comparing surface topography parameters of rough surfaces obtained with spectral moments and deterministic methods. *Tribology international*, ISSN 0301-679X, Jan. 2016, vol. 93, pt. A, str. 137-141, ilustr. https://www.sciencedirect.com/science/article/pii/S0301679X15004156?via%3Dihub, doi: 10.1016/j.triboint.2015.09.013. [COBISS.SI-ID 14288923]

Tomaž Katrašnik:

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]

Tomaž Kek:

1. **KEK, Tomaž**, ŠTURM, Roman, BERGANT, Zoran. Tension and shear behaviour of basalt fiber bio-composites with digital image correlation and acoustic emission monitoring. *Polymers*. 2024, vol. 16, iss. 10, str. 1-14, ilustr. ISSN 2073-4360. https://www.mdpi.com/2073-4360/16/10/1331, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/polym16101331. [COBISS.SI-ID 196372483], [JCR, SNIP, WoS, Scopus].
2. **KEK, Tomaž**, POTOČNIK, Primož, MISSON, Martin, BERGANT, Zoran, SORGENTE, Mario, GOVEKAR, Edvard, ŠTURM, Roman. Characterization of biocomposites and glass fiber epoxy composites based on acoustic emission signals, deep feature extraction, and machine learning. *Sensors*. Sep. 2022, vol. 22, iss. 18, str. 1-16, ilustr. ISSN 1424-8220. https://www.mdpi.com/1424-8220/22/18/6886, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/s22186886. [COBISS.SI-ID 121597443], [JCR, SNIP, WoS , Scopus].
3. **KEK, Tomaž**, KUSIĆ, Dragan, GRUM, Janez. Wavelet packet decomposition to characterize injection molding tool damage. *Applied sciences*. Feb. 2016, vol. 6, iss. 2, f. 1-13, ilustr. ISSN 2076-3417. http://www.mdpi.com/2076-3417/6/2/45, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/app6020045. [COBISS.SI-ID 14587419].

Andrej Kitanovski:

1. **KITANOVSKI, Andrej**. Energy applications of magnetocaloric materials. *Advanced energy materials*, ISSN 1614-6832, 2020, vol. 10, iss. 10, str. 1-34, https://onlinelibrary.wiley.com/doi/10.1002/aenm.201903741, doi: 10.1002/aenm.201903741. [COBISS.SI-ID 17031963]
2. KLINAR, Katja, **KITANOVSKI, Andrej**. Thermal control elements for caloric energy conversion. *Renewable & sustainable energy reviews : an international journal*, ISSN 1364-0321. [Print ed.], 2020, vol. 118, str. 1-17, https://www.sciencedirect.com/science/article/pii/S1364032119307798?via%3Dihub#undfig1, doi: 10.1016/j.rser.2019.109571. [COBISS.SI-ID 16906011]
3. LORBEK, Luka, POREDOŠ, Primož, **KITANOVSKI, Andrej**, POREDOŠ, Alojz. Analytical modeling and numerical simulation of heat transfer in a skin evaporator. *International journal of refrigeration*, ISSN 0140-7007. [Print ed.], 2018, vol. 88, str. 195-203, ilustr. https://www.sciencedirect.com/science/article/pii/S0140700718300318, doi: 10.1016/j.ijrefrig.2018.01.012. [COBISS.SI-ID 15891227]

Jernej Klemenc:

1. TOMAŽINČIČ, Dejan, VESENJAK, Matej, **KLEMENC, Jernej**. Prediction of static and low-cycle durability of porous cellular structures with positive and negative Poisson's ratios. *Theoretical and Applied Fracture Mechanics*. [Print ed.]. Apr. 2020, vol. 106 (102479), str. 1-13, ilustr. ISSN 0167-8442. https://www.sciencedirect.com/science/article/pii/S0167844219307323, DOI: 10.1016/j.tafmec.2020.102479. [COBISS.SI-ID 22988310]

2. **KLEMENC, Jernej**, ŠERUGA, Domen, NAGODE, Aleš, NAGODE, Marko. Comprehensive modelling of the hysteresis loops and strain-energy density for low-cycle fatigue-life predictions of the AZ31 magnesium alloy. *Materials*. Nov. 2019, vol. 12, iss. 22, f. 1-24, ilustr. ISSN 1996-1944. https://www.mdpi.com/1996-1944/12/22/3692, DOI: 10.3390/ma12223692. [COBISS.SI-ID 16894235]
3. **KLEMENC, Jernej**. Influence of fatigue-life data modelling on the estimated reliability of a structure subjected to a constant-amplitude loading. *Reliability engineering & systems safety*. [Print ed.]. Oct. 2015, vol. 142, str. 238-247, ilustr. ISSN 0951-8320. DOI: 10.1016/j.ress.2015.05.026. [COBISS.SI-ID 14035739]

Damjan Klobčar:
1. SKUMAVC, Andrej, TUŠEK, Janez, NAGODE, Aleš, **KLOBČAR, Damjan**. Thermal fatigue study of tungsten alloy WNi28Fe15 cladded on AISI H13 hot work tool steel. *Surface & coatings technology*. [Print ed.]. Jan. 2016, vol. 285, str. 304-311, ilustr. ISSN 0257-8972. DOI: 10.1016/j.surfcoat.2015.09.044. [COBISS.SI-ID 14404123]
2. BALOŠ, Sebastian, DRAMIĆANIN, Miroslav D., JANJATOVIC, Petar, ZABUNOV, Ivan, **KLOBČAR, Damjan**, BUŠIĆ, Matija, GRILLI, Maria Luisa. Metal oxide nanoparticle-based coating as a catalyzer for A-TIG welding : critical raw material perspective. *Metals*. 2019, vol. 9, iss. 5, f. 1-12, ilustr. ISSN 2075-470 https://www.mdpi.com/2075-4701/9/5/567, DOI: 10.3390/met9050567. [COBISS.SI-ID 16623131]
3. **KLOBČAR, Damjan**, TUŠEK, Janez, SMOLEJ, Anton, SIMONČIČ, Samo. Parametric study of FSSW of aluminium alloy 5754 using a pinless tool. *Welding in the world*. Mar. 2015, vol. 59, iss. 2, str. 269-281, ilustr. ISSN 0043-2288. DOI: 10.1007/s40194-014-0208-x. [COBISS.SI-ID 13806875]

Katja Klinar:
1. **KLINAR, Katja**, LAW, Jia Yan, FRANCO, Victorino, MOYA, Xavier, KITANOVSKI, Andrej. Perspectives and energy applications of magnetocaloric, pyromagnetic, electrocaloric, and pyroelectric materials. *Advanced energy materials*. 2024, 2401739, str. 1-36, ilustr. ISSN 1614-6840. https://onlinelibrary.wiley.com/doi/10.1002/aenm.202401739, DOI: 10.1002/aenm.202401739. [COBISS.SI-ID 207624963].
2. SWOBODA, Timm, **KLINAR, Katja**, KITANOVSKI, Andrej, YALAMARTHY, Ananth Saran, MUÑOZ ROJO, Miguel. Solid-state thermal control devices. *Advanced electronic materials*. Mar. 2021, vol. 7, iss. 3, f. 1-28, ilustr. ISSN 2199-160X. https://onlinelibrary.wiley.com/doi/10.1002/aelm.202000625, DOI: 10.1002/aelm.202000625. [COBISS.SI-ID 47223811].
3. BLATNIK, Mihael, **KLINAR, Katja**, KITANOVSKI, Andrej. State of the art of micro vapour-compression systems. V: ŠARLER, Božidar (ur.), VANOLI, Laura (ur.), DOBRAVEC, Tadej (ur.). *Eurotherm 2024 : 9th European Thermal Sciences Conference, 10/06/2024 - 13/06/2024, Lake Bled, Slovenia*. [S. l.]: IOP publishing, 2024. Vol. 2766, [article no.] 012097, str. 1-6, ilustr. Journal of physics. Conference series (Online), vol. 2766. ISSN 1742-6596. https://iopscience.iop.org/article/10.1088/1742-6596/2766/1/012097, DOI: 10.1088/1742-6596/2766/1/012097. [COBISS.SI-ID 199033091].

Dominik Kozjek:
1. **KOZJEK, Dominik**, PORTER, Conor, CARTER, Fred M., MOGONYE, Jon-Erik, CAO, Jian. Data-driven prediction of inter-layer process condition variations in laser powder bed fusion. Additive manufacturing. [Spletna izd.]. May 2024, vol. 88, [article no.] 104230, str. 1-15, ilustr. ISSN 2214-7810. https://www.sciencedirect.com/science/article/pii/S2214860424002768?dgcid=coauthor, DOI: 10.1016/j.addma.2024.104230. [COBISS.SI-ID 198409987].
2. SAMAEI, Arash, PORTER, Conor, **KOZJEK, Dominik**, MOGONYE, Jon-Erik, CAO, Jian, WAGNER, Gregory J. Understanding coaxial photodiode-based multispectral pyrometer measurements at the overhang regions in laser powder bed fusion for part qualification. Additive manufacturing. [Print ed.]. Aug. 2024, [article no.] 104398, vol. 93, str. 1-17, ilustr. ISSN 2214-8604. https://www.sciencedirect.com/science/article/pii/S2214860424004445, DOI: 10.1016/j.addma.2024.104398. [COBISS.SI-ID 207115523].
3. DUAN, Songlin, **KOZJEK, Dominik**, MEHR, Edward, ANDERS, Mark, CAO, Jian. Forming force prediction in double-sided incremental forming via GNN-based transfer learning. Journal of manufacturing processes. [Online ed.]. Jun. 2024, vol. 120, str. 867-877, ilustr. ISSN 2212-4616. https://www.sciencedirect.com/science/article/pii/S1526612524004535, DOI: 10.1016/j.jmapro.2024.04.093. [COBISS.SI-ID 198433283].

Davorin Kramar:

1. CICA, Djordje, **KRAMAR, Davorin**. Multi-objective optimization of high-pressure jet-assisted turning of Inconel 718. International journal of advanced manufacturing technology, ISSN 0268-3768, Dec. 2019, vol. 105, iss. 11, str. 4731-4745, ilustr. https://link.springer.com/article/10.1007%2Fs00170-019-04513-4, doi: 10.1007%2Fs00170-019-04513-4. [COBISS.SI-ID 16992027]
2. HAFNER, Rok, GRGURAŠ, Damir, **KRAMAR, Davorin**. Milling process optimization for the best surface coat adhesion of the rigid polyurethane foam. *Journal of polymer engineering*, ISSN 0334-6447, 2018, vol. 38, iss. 10, f. 995-1005, ilustr. https://www.degruyter.com/view/j/polyeng.ahead-of-print/polyeng-2018-0035/polyeng-2018-0035.xml, doi: doi.org/10.1515/polyeng-2018-0035. [COBISS.SI-ID 16114203],
3. ÇALŞKAN, Halil, KURBANOĞLU, Cahit, PANJAN, Peter, **KRAMAR, Davorin**. Investigation of the performance of carbide cutting tools with hard coatings in hard milling based on the response surface methodology. *International journal of advanced manufacturing technology*, ISSN 0268-3768, 2013, vol. 66, no. 5-8, str. 883-893, doi: 10.1007/s00170-012-4374-y. [COBISS.SI-ID 26698279]

Andraž Kravos:

1. **KRAVOS, Andraž**, VOGLAR, Tit, KREGAR, Ambrož, KATRAŠNIK, Tomaž. Hybrid methodology for parametrisation of proton exchange membrane fuel cell model for diagnostics and control applications. *Journal of the electrochemical society*. [Online ed.]. Nov. 2023, vol. 170, no. 11, [article no.] 114522, str. 1-13, ilustr. ISSN 1945-7111. https://iopscience.iop.org/article/10.1149/1945-7111/ad07a7, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1149/1945-7111/ad07a7. [COBISS.SI-ID 171709443].
2. **KRAVOS, Andraž**, KREGAR, Ambrož, PENGA, Željko, BARBIR, Frano, KATRAŠNIK, Tomaž. Real-time capable transient model of liquid water dynamics in proton exchange membrane fuel cells. *Journal of power sources*. Sep. 2022, vol. 541, str. 1-16, ilustr. ISSN 0378-7753. https://www.sciencedirect.com/science/article/pii/S0378775322006012, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.jpowsour.2022.231598. [COBISS.SI-ID 110908675].
3. **KRAVOS, Andraž**, RITZBERGER, Daniel, TAVČAR, Gregor, HAMETNER, Christoph, JAKUBEK, Stefan, KATRAŠNIK, Tomaž. Thermodynamically consistent reduced dimensionality electrochemical model for proton exchange membrane fuel cell performance modelling and control. *Journal of power sources*. Apr. 2020, vol. 454, str. 1-16, ilustr. ISSN 0378-7753. https://www.sciencedirect.com/science/article/pii/S0378775320302330, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.jpowsour.2020.227930. [COBISS.SI-ID 17079835].

Robert Kunc:

1. **KUNC, Robert**, OMEROVIĆ, Senad, AMBROŽ, Miha, PREBIL, Ivan. Comparative study of european tunnel emergency-stop-area-wall protection measures. Accident analysis and prevention. [Print ed.]. Feb. 2014, vol. 63, str. 9-21, ilustr. ISSN 0001-4575. DOI: 10.1016/j.aap.2013.10.020. [COBISS.SI-ID 13216027]
2. AMBROŽ, Miha (avtor dodatnega besedila), TRAJKOVSKI, Jovan, **KUNC, Robert**. Decelerations of passenger vehicles on gravel arrester beds. Sustainability. Mar. 2020, vol. 12, iss. 5, f. 1-13, ilustr. ISSN 2071-1050. https://www.mdpi.com/2071-1050/12/5/1761, DOI: 10.3390/su12051761. [COBISS.SI-ID 17057051]
3. TRAJKOVSKI, Jovan, PERENDA, Jasenko, **KUNC, Robert**. Blast response of light armoured vehicles (LAVs) with flat and V-hull floor. Thin-walled structures. Oct. 2018, vol. 131, str. 238-244, ilustr. ISSN 0263-8231. https://www.sciencedirect.com/science/article/pii/S0263823117315793?via%3Dihub, DOI: 10.1016/j.tws.2018.06.040. [COBISS.SI-ID 16149275]

Jože Kutin:

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]

Franc Majdič:

1. **MAJDIČ, Franc**, VELKAVRH, Igor, KALIN, Mitjan. Improving the performance of a proportional 4/3 waterhydraulic valve by using a diamond-like-carbon coating. Wear, ISSN 0043-1648. Jan. 2013, vol. 297, iss. 1/2, str. 1016-1024, SCI, 1A1
2. STRMČNIK, Ervin, **MAJDIČ, Franc**, KALIN, Mitjan. Water-lubricated behaviour of AISI 440C stainless steel and a DLC coating for an orbital hydraulic motor application. Tribology international, ISSN 0301-679X. Mar. 2019, vol. 131, str. 128-136, SCI, 1A1
3. STRMČNIK, E., **MAJDIČ, F**. The pressure and efficiency characteristic of hydraulic gerotor motor with the floating outer ring. Tehnički vjesnik, ISSN 1330-3651, Apr. 2018, vol. 25, nr. 2. SCI, 1A4

Boštjan Mavrič:

1. VUGA, Gašper, **MAVRIČ, Boštjan**, HANOGLU, Umut, ŠARLER, Božidar. A hybrid radial basis function-finite difference method for modelling two-dimensional thermo-elasto-plasticity. Part 2, Application to cooling of hot-rolled steel bars on a cooling bed. *Engineering analysis with boundary elements*. Feb. 2024, vol. 159, str. 331-341, ilustr. ISSN 0955-7997. https://www.sciencedirect.com/science/article/pii/S0955799723005714, Repozitorij Univerze v Ljubljani – RUL, DiRROS - Digitalni repozitorij raziskovalnih organizacij Slovenije, DOI: 10.1016/j.enganabound.2023.12.001. [COBISS.SI-ID 179241219].
2. VUGA, Gašper, **MAVRIČ, Boštjan**, ŠARLER, Božidar. Strong-form meshless numerical modelling of visco-plastic material. *Engineering analysis with boundary elements*. Oct. 2024, vol. 167, [art. no.] 105868, str. 1-17, ilustr. ISSN 0955-7997. https://www.sciencedirect.com/science/article/pii/S0955799724003436, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.enganabound.2024.105868. [COBISS.SI-ID 201503491].
3. RANA, Khush Bakhat, **MAVRIČ, Boštjan**, ŠARLER, Božidar. Phase-field formulated meshless simulation of Rayleigh-Taylor instability problem. V: ŠARLER, Božidar (ur.), VANOLI, Laura (ur.), DOBRAVEC, Tadej (ur.). *Eurotherm 2024 : 9th European Thermal Sciences Conference, 10/06/2024 - 13/06/2024, Lake Bled, Slovenia*. [S. l.]: IOP publishing, 2024. Vol. 2766, [article no.] 012163, str. 1-6, ilustr. Journal of physics. Conference series (Online), vol. 2766. ISSN 1742-6596. https://iopscience.iop.org/article/10.1088/1742-6596/2766/1/012163, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1088/1742-6596/2766/1/012163. [COBISS.SI-ID 197787651].

Sašo Medved:

1. ŠUKLJE, Tomaž, HAMDY, Mohamed, ARKAR, Ciril, HENSEN, Jan, **MEDVED, Sašo**. An inverse modelling approach for the thermal response modelling of green façades. *Applied energy*, ISSN 0306-2619, Feb. 2019, vol. 235, str. 1447-1456. [COBISS.SI-ID 16368155]
2. **MEDVED, Sašo**, BEGELJ, Žiga, DOMJAN, Suzana, ŠUKLJE, Tomaž, ČERNE, Boštjan, ARKAR, Ciril. The dynamic thermal response model and energy performance of multi-layer glass and BIPV facade structures. *Energy and buildings*. [Print ed.]. Apr. 2019, vol. 188/189, str. 239-251, ilustr. ISSN 0378-7788. [COBISS.SI-ID 16497179]
3. DOMJAN, Suzana, ARKAR, Ciril, BEGELJ, Žiga, **MEDVED, Sašo**. Evolution of all-glass nearly zero energy buildings with respect to the local climate and free-cooling techniques. *Building and environment*. [Print ed.]. 2019, vol. 160, str. 1-15, ilustr. ISSN 0360-1323. [COBISS.SI-ID 16653339]

Nikolaj Mole:

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]

Mitja Mori:

1. **MORI, Mitja**, ŽVAR BAŠKOVIČ, Urban, STROPNIK, Rok, LOTRIČ, Andrej, KATRAŠNIK, Tomaž, ŠIPEC, Robert, LIPAR, Jakob, LESAR, Žiga, DROBNIČ, Boštjan. Green energy hubs for the military that can also support the civilian mobility sector with green hydrogen. *International journal of hydrogen energy*. [Online ed.]. 2023, vol. 48, str. 39138-39153, ilustr. ISSN 1879-3487. https://www.sciencedirect.com/science/article/pii/S0360319923022541, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ijhydene.2023.05.026. [COBISS.SI-ID 153773315].
2. **MORI, Mitja**, STROPNIK, Rok. Comparing environmental impacts of three typical Slovenian electricity providers with hydroelectricity. *Elektrotehniški vestnik*. [Slovenska tiskana izd.]. 2019, letn. 86, št. 3, str. 97-103, ilustr. ISSN 0013-5852. https://ev.fe.uni-lj.si/3-2019/Mori.pdf, Digitalna knjižnica Slovenije - dLib.si. [COBISS.SI-ID 16699931].
3. FÉRRIZ, Ana María, BERNAD, Alfonso, **MORI, Mitja**, FIOROT, Sabina. End-of-life of fuel cell and hydrogen products : a state of the art. *International journal of hydrogen energy*. 2019, vol. 44, iss. 25, str. 12872-12879, ilustr. ISSN 0360-3199. https://www.sciencedirect.com/science/article/pii/S0360319918330969?via%3Dihub#!, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ijhydene.2018.09.176. [COBISS.SI-ID 16334875].

Marko Nagode:

1. PANIĆ, Branislav, KLEMENC, Jernej, **NAGODE, Marko**. Improved initialization of the EM algorithm for mixture model parameter estimation. *Mathematics*. 2020, vol. 8, iss. 3, str. 1-29, ilustr. ISSN 2227-7390. https://www.mdpi.com/2227-7390/8/3/373/htm#, DOI: 10.3390/math8030373. [COBISS.SI-ID 17112347]
2. OMAN, Simon, **NAGODE, Marko**. The influence of piston shape on air-spring fatigue life. *Fatigue & fracture of engineering materials & structures*. 2018, vol. 41, iss. 5, str. 1019-1031, ilustr. ISSN 8756-758X. http://onlinelibrary.wiley.com/doi/10.1111/ffe.12748/epdf, DOI: 10.1111/ffe.12748. [COBISS.SI-ID 15773211]
3. ŠERUGA, Domen, **NAGODE, Marko**, KLEMENC, Jernej. Eliminating friction between flat specimens and an antibuckling support during cyclic tests using a simple sensor. *Measurement science & technology*. [Print ed.]. 2019, vol. 30, no. 9, str. 1-15, ilustr. ISSN 0957-0233. https://iopscience.iop.org/article/10.1088/1361-6501/ab1e35, DOI: 10.1088/1361-6501/ab1e35. [COBISS.SI-ID 16600091]

Simon Oman:

1. NAGODE, Marko, KLEMENC, Jernej, **OMAN, Simon**, ŠERUGA, Domen. Elasto-viscoplastic material modelling using the multiaxial Prandtl operator approach. *International journal of mechanical sciences*. 2024, vol. 267, [article no.] 108953, str. 1-16, ilustr. ISSN 1879-2162. https://www.sciencedirect.com/science/article/pii/S002074032300855X, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ijmecsci.2023.108953. [COBISS.SI-ID 183728643].
2. GOSAR, Aleš, KLEMENC, Jernej, NAGODE, Marko, **OMAN, Simon**. On the importance of the experimental setup design in hydrodynamic journal bearing friction measurement. *Tribology international*. Sep. 2024, vol. 197, [article no.] 109800, str. 1-13, ilustr. ISSN 0301-679X. https://www.sciencedirect.com/science/article/pii/S0301679X24005528, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.triboint.2024.109800. [COBISS.SI-ID 196777987].
3. KOCJAN, Tadej, NAGODE, Marko, KLEMENC, Jernej, **OMAN, Simon**. On fatigue crack growth testing and analysis of non-crystallising rubber using planar tension specimen. *Polymer testing*. [Print ed.]. Jan. 2023, vol. 117, str. 1-10, ilustr. ISSN 0142-9418. https://www.sciencedirect.com/science/article/pii/S0142941822003403, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.polymertesting.2022.107819. [COBISS.SI-ID 128185859].

Tomaž Pepelnjak:

1. BORIĆ, Andrej, KALENDOVÁ, Alena, URBANEK, Michal, **PEPELNJAK, Tomaž.** Characterisation of polyamide (PA)12 nanocomposites with montmorillonite (MMT) filler clay used for the incremental forming of sheets. *Polymers*, ISSN 2073-4360, Jul. 2019, vol. 11, iss. 8, f. 1-15, ilustr. https://www.mdpi.com/2073-4360/11/8/1248/pdf, doi: 10.3390/polym11081248. [COBISS.SI-ID 16803611]
2. **PEPELNJAK, Tomaž**, ŠAŠEK, Patricia, KUDLÁČEK, Jan. Upsetting analysis of high-strength tubular specimens with the Taguchi method. *Metals*, ISSN 2075-4701, Nov. 2016, vol. 6, iss. 11, f. 1-14, ilustr.

http://www.mdpi.com/2075-4701/6/11/257/html, doi: 10.3390/met6110257. [COBISS.SI-ID 15008283]

3. **PEPELNJAK, Tomaž**, KAYHAN, Erdem, KAFTANOĞLU, B. Analysis of non-isothermal warm deep drawing of dual-phase DP600 steel. *International journal of material forming*, ISSN 1960-6206, Mar. 2019, vol. 12, iss.2, str. 223-240, ilustr. https://link.springer.com/article/10.1007/s12289-018-1400-0, doi: 10.1007/s12289-018-1400-0. [COBISS.SI-ID 15859227]

Aljoša Peperko:

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. [COBISS.SI-ID 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].
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].

Rok Petkovšek:

1. AGREŽ, Vid, **PETKOVŠEK, Rok**. Highly adaptable gain-switched fiber laser with improved efficiency. *Optics express*, ISSN 1094-4087, 2019, vol. 27, no. 9, str. 12100-12109, ilustr. https://www.osapublishing.org/oe/abstract.cfm?uri=oe-27-9-12100, doi: 10.1364/OE.27.012100. [COBISS.SI-ID 16599835]
2. MUR, Jaka, PETELIN, Jaka, SCHILLE, Jörg, LOESCHNER, Udo, **PETKOVŠEK, Rok**. Ultra-fast laser-based surface engineering of conductive thin films. *Applied Surface Science*, ISSN 0169-4332. [Print ed.], apr. 2020, vol. 509, str. 1-7, ilustr. https://www.sciencedirect.com/science/article/pii/S0169433219337286, doi: 10.1016/j.apsusc.2019.144911. [COBISS.SI-ID 17002523]
3. HORVAT, Darja, ORTHABER, Uroš, SCHILLE, Jörg, HARTWIG, L., LÖSCHNER, Udo, VREČKO, Andrej, **PETKOVŠEK, Rok**. Laser-induced bubble dynamics inside and near a gap between a rigid boundary and an elastic membrane. *International journal of multiphase flow*, ISSN 0301-9322, Mar. 2018, vol. 100, str. 119-126, ilustr. https://www.sciencedirect.com/science/article/pii/S0301932216304098, doi: 10.1016/j.ijmultiphaseflow.2017.12.010. [COBISS.SI-ID 15859483]

Primož Podržaj:

1. FINŽGAR, Miha, **PODRŽAJ, Primož**. Feasibility of assessing ultra-short-term pulse rate variability from video recordings. PeerJ. Jan. 2020, vol. 8, f. 1-26, ilustr. ISSN 2167-8359. https://peerj.com/articles/8342/, DOI: 10.7717/peerj.8342. [COBISS.SI-ID 17000731]
2. DOI, Shunsuke, IMAI, Yoshiro, KAGAWA, Koji, OHNO, Asako, **PODRŽAJ, Primož**, HATTORI, Tetsuo. Proposal and development of web-based programming educational system with error analysis and visualization. Denki gakkai ronbunshi = : IEEJ transactions on electronics, information and systems.C, Denshi joho shisutemu bumonshi. 2019, vol. 139, no. 11, f. 1241-1247, ilustr. ISSN 1348-8155. https://www.jstage.jst.go.jp/article/ieejeiss/139/11/139_1241/_article/-char/en, DOI: 10.1541/ieejeiss.139.1241. [COBISS.SI-ID 16891931]
3. 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]

Marko Polajnar:

1. **POLAJNAR, Marko**, ČOGA, Lucija, KALIN, Mitjan. Base lubricants for green stamping : the effects of their structure and viscosity on tribological performance. *Friction*. Sep. 2023, vol. 11, iss. 9, str. 1741–1754, ilustr. ISSN 2223-7690. https://link.springer.com/article/10.1007/s40544-022-0706-6, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1007/s40544-022-0706-6. [COBISS.SI-ID 150831619].

2. NOVAK, Nejc, TRAJKOVSKI, Ana, **POLAJNAR, Marko**, KALIN, Mitjan, MAJDIČ, Franc. Wear of hydraulic pump with real particles and medium test dust. *Wear*. [Print ed.]. Nov. 2023, vol. 532/533, str. 1-13, ilustr. ISSN 0043-1648. https://www.sciencedirect.com/science/article/pii/S0043164823004842, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.wear.2023.205101. [COBISS.SI-ID 162606851].
3. **POLAJNAR, Marko**. Adsorpcija aditivov za doseganje oleofobnih jeklenih površin za nizko EHD trenje. V: *SLOTRIB 2024 : Posvetovanje o tribologiji, mazivih in zelenih tehnologijah : 10. junij 2024, Portorož*. [Ljubljana]: Slovensko društvo za tribologijo, [2024]. Str. 1-9, ilustr. [COBISS.SI-ID 201761795].

Primož Potočnik:

1. **POTOČNIK, Primož**, JEROMEN, Andrej, GOVEKAR, Edvard. Genetic algorithm-based framework for optimization of laser beam path in additive manufacturing. *Metals*. 2024, vol. 14, iss. 4, [article no.] 410, str. 1-17, ilustr. ISSN 2075-4701. https://www.mdpi.com/2075-4701/14/4/410, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/met14040410. [COBISS.SI-ID 191234563].
2. **POTOČNIK, Primož**, OLMOS LOPEZ-ROSO, Borja, VODOPIVEC, Lučka, SUSIČ, Egon, GOVEKAR, Edvard. Condition classification of heating systems valves based on acoustic features and machine learning. *Applied acoustics*. [Print ed.]. Mar. 2021, vol. 174, str. 1-9, ilustr. ISSN 0003-682X. https://www.sciencedirect.com/science/article/pii/S0003682X20308409?via%3Dihub, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.apacoust.2020.107736. [COBISS.SI-ID 35370243].
3. **POTOČNIK, Primož**, ŠKERL, Primož, GOVEKAR, Edvard. Machine-learning-based multi-step heat demand forecasting in a district heating system. *Energy and buildings*. [Print ed.]. Feb. 2021, vol. 233, str. 1-14, ilustr. ISSN 0378-7788. https://www.sciencedirect.com/science/article/pii/S0378778820334599?via%3Dihub, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.enbuild.2020.110673. [COBISS.SI-ID 45195779].

Jurij Prezelj:

1. NOVAKOVIĆ, Tadej, OGRIS, Miha, **PREZELJ, Jurij**. Validating impeller geometry optimization for sound quality based on psychoacoustics metrics. *Applied acoustics*. [Print ed.]. Jan. 2020, vol. 157, str. 1-6, ilustr. ISSN 0003-682X. https://www.sciencedirect.com/science/article/pii/S0003682X18309666, DOI: 10.1016/j.apacoust.2019.107013. [COBISS.SI-ID 16837659]
2. **PREZELJ, Jurij**, NOVAKOVIĆ, Tadej. Centrifugal fan with inclined blades for vacuum cleaner motor. *Applied acoustics*. [Print ed.]. Nov. 2018, vol. 140, str. 13-23, ilustr. ISSN 0003-682X. https://www.sciencedirect.com/science/article/pii/S0003682X17311118, DOI: 10.1016/j.apacoust.2018.05.010. [COBISS.SI-ID 16054555]
3. MUROVEC, Jure, **PREZELJ, Jurij**, ČUROVIĆ, Luka, NOVAKOVIĆ, Tadej. Microphone array based automated environmental noise measurement system. *Applied acoustics*. [Print ed.]. 2018, vol. 141, str. 106-114, ilustr. ISSN 0003-682X. https://www.sciencedirect.com/science/article/pii/S0003682X18300756, DOI: 10.1016/j.apacoust.2018.07.004. [COBISS.SI-ID 16155163]

Franci Pušavec:

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]

Darja Rupnik Poklukar:

1. **RUPNIK POKLUKAR, Darja**, ŽEROVNIK, Janez. Generalized closeness and decay stability of some graphs. *Mathematics*. 2025, vol. 13, no. 6 , [article no.] 939, 9 str., ilustr. ISSN 2227-7390.

https://www.mdpi.com/2227-7390/13/6/939, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/math13060939. [COBISS.SI-ID 229055747]
2. BREZOVNIK, Simon, **RUPNIK POKLUKAR, Darja,** ŽEROVNIK, Janez. The 2-rainbow domination number of Cartesian bundles over cycles. *Central European journal of operations research*. 2025, vol. 33, str. 641–659, ilustr. ISSN 1613-9178. https://link.springer.com/article/10.1007/s10100-024-00949-6, DOI: 10.1007/s10100-024-00949-6. [COBISS.SI-ID 216758531]
3. NOVAK, Tina, PEPERKO, Aljoša, **RUPNIK POKLUKAR, Darja**, ZAKRAJŠEK, Helena. *Matematika 2 : naloge in postopki reševanja*. 1. popravljena izd. Ljubljana: Fakulteta za strojništvo, 2024. 171 str., ilustr. ISBN 978-961-6980-33-3. [COBISS.SI-ID 199312899]

Mihael Sekavčnik:
1. STROPNIK, Rok, **SEKAVČNIK, Mihael**, FERRIZ, Ana María, MORI, Mitja. Reducing environmental impacts of the ups system based on PEM fuel cell with circular economy. *Energy*. [Print ed.]. 2018, vol. 165, part b, str. 824-835, ilustr. ISSN 0360-5442. https://www.sciencedirect.com/science/article/pii/S0360544218319790?via%3Dihub, DOI: 10.1016/j.energy.2018.09.201. [COBISS.SI-ID 16276763]
2. LOTRIČ, Andrej, **SEKAVČNIK, Mihael**, HOČEVAR, Stanko. Effectiveness of heat-integrated methanol steam reformer and polymer electrolyte membrane fuel cell stack systems for portable applications. *Journal of power sources*. Dec. 2014, vol. 270, str. 166-182, ilustr. ISSN 0378-7753. DOI: 10.1016/j.jpowsour.2014.07.072. [COBISS.SI-ID 13635611]
3. LACKO, Rok, DROBNIČ, Boštjan, MORI, Mitja, **SEKAVČNIK, Mihael**, VIDMAR, Marjan. Stand-alone renewable combined heat and power system with hydrogen technologies for household application. *Energy*. [Print ed.]. Dec. 2014, vol. 77, str. 164-170, ilustr. ISSN 0360-5442. DOI: 10.1016/j.energy.2014.05.110. [COBISS.SI-ID 13637147]

Janko Slavič:
1. VIRTANEN, Pauli, **SLAVIČ, Janko**, GOMMERS, Ralf, OLIPHANT, Travis E., HABERLAND, Matt, REDDY, Tyler, COURNAPEAU, David, BUROVSKI, Evgeni, PETERSON, Pearu, WECKESSER, Warren, et al. SciPy 1.0 : fundamental algorithms for scientific computing in Python. Nature methods, ISSN 1548-7091. [Print ed.], Mar. 2020, vol. 17, str. 261-272, ilustr. https://www.nature.com/articles/s41592-019-0686-2#article-info, doi: 10.1038/s41592-019-0686-2. [COBISS.SI-ID 17044763]
2. GORJUP, Domen, **SLAVIČ, Janko**, BOLTEŽAR, Miha. Frequency domain triangulation for full-field 3D operating-deflection-shape identification. Mechanical systems and signal processing, ISSN 0888-3270, Nov. 2019, vol. 133, str. 1-13, ilustr. https://www.sciencedirect.com/science/article/pii/S0888327019305023, doi: 10.1016/j.ymssp.2019.106287. [COBISS.SI-ID 16751899]
3. MRŠNIK, Matjaž, **SLAVIČ, Janko**, BOLTEŽAR, Miha. Vibration fatigue using modal decomposition. Mechanical systems and signal processing, ISSN 0888-3270, Jan. 2018, vol. 98, str. 548-556, ilustr. http://ac.els-cdn.com/S0888327017302728/1-s2.0-S0888327017302728-main. pdf?_tid=05277f10-46ab-11e7-8377-00000aab0f26&acdnat=1496308779_741233a7c58e44148923265c09da0eaa, doi: 10.1016/j.ymssp.2017.03.052. [COBISS.SI-ID 15513115]

Lidija Slemenik Perše:
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]

Uroš Stritih:

1. **STRITIH, Uroš**, ZAVRL, Eva, PAKSOY, Halime. Energy analysis and carbon saving potential of a complex heating system with solar assisted heat pump and phase change material (PCM) thermal storage in different climatic conditions. *European journal of sustainable development research*. 2019, vol. 3, iss. 1., f. 1-17, ilustr. ISSN 2542-4742. http://www.lectitopublishing.nl/download/energy-analysis-and-carbon-saving-potential-of-a-complex-heating-system-with-solar-assisted-heat-3930.pdf, DOI: 10.20897/ejosdr/3930. [COBISS.SI-ID 16341019]
2. STROPNIK, Rok, KOŽELJ, Rok, ZAVRL, Eva, **STRITIH, Uroš**. Improved thermal energy storage for nearly zero energy buildings with PCM integration. *Solar energy*. [Print ed.]. Sep. 2019, vol. 190, str. 420-426, ilustr. ISSN 0038-092X. https://www.sciencedirect.com/science/article/pii/S0038092X19308229, DOI: 10.1016/j.solener.2019.08.041. [COBISS.SI-ID 16754715]
3. **STRITIH, Uroš**, TYAGI, V. V., STROPNIK, Rok, PAKSOY, Halime, HAGHIGHAT, Fariborz, JOYBARI, Mahmood Mastani. Integration of passive PCM technologies for net-zero energy buildings. *Sustainable cities and society*. [Spletna izd.]. Aug. 2018, vol. 41, str. 286-295, ilustr. ISSN 2210-6715. http://onlinelibrary.wiley.com/doi/10.1111/ffe.12804/epdf, DOI: 10.1016/j.scs.2018.04.036. [COBISS.SI-ID 16096539]

Božidar Šarler:

1. MAVRIČ, Boštjan, **ŠARLER, Božidar**. Equivalent-PDE based stabilization of strong-form meshless methods applied to advection-dominated problems. *Engineering analysis with boundary elements*. 2020, vol. 113, str. 315-327, ilustr. ISSN 0955-7997. https://www.sciencedirect.com/science/article/pii/S0955799720300205?via%3Dihub, DOI: 10.1016/j.enganabound.2020.01.014. [COBISS.SI-ID 17037339]
2. ZAHOOR, Rizwan, REGVAR, Rok, BAJT, Saša, **ŠARLER, Božidar**. A numerical study on the influence of liquid properties on gas-focused micro-jets. *Progress in computational fluid dynamics*. 2020, vol. 20, no. 2, str. 1-13, ilustr. ISSN 1468-4349. https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=pcfd#82935, DOI: 10.1504/PCFD.2019.10024215. [COBISS.SI-ID 16803867]
3. ZAMOLO, Riccardo, NOBILE, Enrico, **ŠARLER, Božidar**. Novel multilevel techniques for convergence acceleration in the solution of systems of equations arising from RBF-FD meshless discretizations. *Journal of computational physics*. 2019, vol. 392, str. 311-334, ilustr. ISSN 0021-9991. https://www.sciencedirect.com/science/article/pii/S0021999119303171. [COBISS.SI-ID 16607003]

Domen Šeruga:

1. LITROP, Aljaž, ZOBEC, Peter, **ŠERUGA, Domen**, NAGODE, Marko, KLEMENC, Jernej. Experimental analysis of crack initiation and propagation in dynamically shear-loaded aluminium specimens using the digital image correlation method. *Engineering failure analysis*. Sep. 2022, vol. 139, str. 1-11, ilustr. ISSN 1350-6307. https://www.sciencedirect.com/science/article/pii/S1350630722004691, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.engfailanal.2022.106495. [COBISS.SI-ID 111079427].
2. BARTOŠÁK, Michal, NAGODE, Marko, KLEMENC, Jernej, DOUBRAVA, Karel, **ŠERUGA, Domen**. Use of Prandtl operators in simulating the cyclic softening of Inconel 718 under isothermal low-cycle fatigue loading. *International journal of mechanical sciences*. May 2022, vol. 222, str. 1-11, ilustr. ISSN 0020-7403. https://www.sciencedirect.com/science/article/pii/S0020740322001072, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.ijmecsci.2022.107182. [COBISS.SI-ID 102892035].
3. NAGODE, Marko, KLEMENC, Jernej, OMAN, Simon, **ŠERUGA, Domen**. A closed-form solution for temperature-dependent elastoplastic problems using the Prandtl operator approach. *Communications in Nonlinear Science and Numerical Simulation*. Aug. 2021, vol. 99, str. 1-24, ilustr. ISSN 1007-5704. https://www.sciencedirect.com/science/article/pii/S1007570421001519?via%3Dihub, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.cnsns.2021.105839. [COBISS.SI-ID 59481091].

Marko Šimic:

1. JANKOVIČ, Denis, **ŠIMIC, Marko**, HERAKOVIČ, Niko. A data-driven simulation and Gaussian process regression model for hydraulic press condition diagnosis. *Advanced engineering informatics : the science of supporting knowledge-intensive activities*. Jan. 2024, vol. 59, str. 1-22, ilustr. ISSN 1474-0346.

https://www.sciencedirect.com/science/article/pii/S1474034623004044, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.aei.2023.102276. [COBISS.SI-ID 174551043].
2. JANKOVIČ, Denis, **ŠIMIC, Marko**, HERAKOVIČ, Niko. A comparative study of machine learning regression models for production systems condition monitoring. *Advances in production engineering & management*. Mar. 2024, vol. 19, nr. 1, str. 78–92, ilustr. ISSN 1854-6250. https://apem-journal.org/Archives/2024/Abstract-APEM19-1_078-092.html, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.14743/apem2024.1.494. [COBISS.SI-ID 201874947].
3. **ŠIMIC, Marko**, HERAKOVIČ, Niko. Investigation of innovative high-response piezoelectric actuator used as smart actuator–sensor system. *Applied sciences*. 2024, vol. 14, iss. 18, art. 8523, str. 1-17, ilustr. ISSN 2076-3417. https://www.mdpi.com/2076-3417/14/18/8523, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/app14188523. [COBISS.SI-ID 208705027].

Roman Šturm:
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]

Jovan Trajkovski:
1. **TRAJKOVSKI, Jovan**, KUNC, Robert. Strain rate sensitivity of low carbon threaded steel rods of grade 4.6 : by Jovan Trajkovski and Robert Kunc. *Materials*. 2024, vol. 17, iss. 24, [art. no.] 6228, str. 1-14, ilustr. ISSN 1996-1944. https://www.mdpi.com/1996-1944/17/24/6228, DOI: 10.3390/ma17246228. [COBISS.SI-ID 220242179]
2. **TRAJKOVSKI, Jovan**. Ballistic response of high–strength steel against small–arm projectiles : numerical modelling. V: KOVÁCS, Tünde Anna (ur.), FÜRSTNER, Igor (ur.). *Critical infrastructure protection : advanced technologies for crisis prevention and response : conference proceedings*. Dordrecht: Springer, 2025. Str. 311-323, ilustr. NATO science for peace and security series. C, Environmental security (Online). ISBN 978-94-024-2308-2. ISSN 1874-6543. https://link.springer.com/chapter/10.1007/978-94-024-2308-2_22, DOI: 10.1007/978-94-024-2308-2_22. [COBISS.SI-ID 236804611]
3. **TRAJKOVSKI, Jovan**, AMBROŽ, Miha, KUNC, Robert. Gravel arrester beds as a safety measure at the motorway exit ramps : experimental and numerical study. *Road materials and pavement design*. 2024, vol. 25, no. 1, str. 99-114, ilustr. ISSN 2164-7402. https://www.tandfonline.com/doi/full/10.1080/14680629.2023.2194442, DOI: 10.1080/14680629.2023.2194442. [COBISS.SI-ID 147609091]

Jaka Tušek:
1. NEBOT-ANDRÉS, Laura, PETRUZZIELLO, Fabio, APREA, Ciro, LLOPIS, Rodrigo, ŽEROVNIK, Andrej, MAIORINO, Angelo, **TUŠEK, Jaka**. Parametric analysis of hybrid elastocaloric – CO2 cooling system. *Applied thermal engineering*. (2024), vol. 253, article no. 123843, str. 1-10, DOI: 10.1016/j.applthermaleng.2024.123843. [COBISS.SI-ID 206758147].
2. AHČIN, Žiga, KITANOVSKI, Andrej, **TUŠEK, Jaka**. Latent thermal energy storage using solid-state phase transformation in caloric materials. *Cell reports physical science*. (2024), vol. 5, iss. 9, article no. 102175, str. 1-18, DOI: 10.1016/j.xcrp.2024.102175. [COBISS.SI-ID 206949635].
3. AHČIN, Žiga, **TUŠEK, Jaka**. Parametric analysis of fatigue-resistant elastocaloric regenerators : Tensile vs. compressive loading. *Applied thermal engineering*. (2023), vol. 231, str. 1-13, DOI: 10.1016/j.applthermaleng.2023.120996. [COBISS.SI-ID 157626371].

Joško Valentinčič:

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]

Rok Vrabič:

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*. 2017, vol. 66, iss. 1, str. 433-436, ilustr. ISSN 0007-8506. 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. KOZJEK, Dominik, **VRABIČ, Rok**, KRALJ, David, BUTALA, Peter. Interpretative identification of the faulty conditions in a cyclic manufacturing process. Journal of manufacturing systems. Apr. 2017, vol. 43, part 2, str. 214-224, ilustr. ISSN 0278-6125. http://www.sciencedirect.com/science/article/pii/S0278612517300304, DOI: 10.1016/j.jmsy.2017.03.001. [COBISS.SI-ID 15458075]
3. PUTNIK, Goran D., ŠKULJ, Gašper, **VRABIČ, Rok**, VARELA, Leonilde, BUTALA, Peter. Simulation study of large production network robustness in uncertain environment. CIRP annals. 2015, vol. 64, iss. 1, str. 439-442, ilustr. ISSN 0007-8506. DOI: 10.1016/j.cirp.2015.04.118. [COBISS.SI-ID 13971739]
4. MAKINDE, O. A., MPOFU, Khumbulani, **VRABIČ, Rok**, RAMATSETSE, B. I. A bio-inspired approach for the design of a multifunctional robotic end-effector customized for automated maintenance of a reconfigurable vibrating screen. Robotics and biomimetics. Aug. 2017, [vol.] 4, [iss.] 1, f. 1-29, ilustr. ISSN 2197-3768. https://www.ncbi.nlm.nih.gov/pubmed/28932653#, DOI: 10.1186/s40638-017-0060-8. [COBISS.SI-ID 16491803]
5. SELAK, Luka, **VRABIČ, Rok**, ŠKULJ, Gašper, SLUGA, Alojzij, BUTALA, Peter. Assessing feasibility of operations and maintenance automation : a case of small hydropower plants. V: ERKOYUNCU, John (ur.). *CIRPe 2015 : understanding the life cycle implications of manufacturing*. [Amsterdam etc.]: Elsevier, 2015. Vol. 37, f. 164-169, ilustr. Procedia CIRP, Vol. 37. ISSN 2212-8271. https://www.sciencedirect.com/science/article/pii/S2212827115009555?via%3Dihub, DOI: 10.1016/j.procir.2015.08.101. [COBISS.SI-ID 14265371]

Nikola Vukašinović:

1. URBAS, Uroš, ZORKO, Damijan, ČERNE, Borut, TAVČAR, Jože, **VUKAŠINOVIĆ, Nikola**. A method for enhanced polymer spur gear inspection based on 3D optical metrology. Measurement : journal of the International Measurement Confederation. [Print ed.]. Feb. 2021, vol. 169, str. 1-14, ilustr. ISSN 0263-2241. https://www.sciencedirect.com/ science/article/pii/S0263224120311052, DOI: 10.1016/j.measurement.2020.108584. [COBISS.SI-ID 32573699], [JCR, SNIP, WoS do 22. 11. 2021: št. citatov (TC): 10, čistih citatov (CI): 4, čistih citatov na avtorja (CIAu): 0,80, Scopus do 4. 2. 2022: št. citatov (TC): 11, čistih citatov (CI): 6, čistih citatov na avtorja (CIAu): 1,20]
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. URBAS, Uroš, VRABIČ, Rok, **VUKAŠINOVIĆ, Nikola**. Displaying product manufacturing information in augmented reality for inspection. V: BUTALA, Peter (ur.), GOVEKAR, Edvard (ur.), VRABIČ, Rok (ur.). *52nd CIRP Conference on Manufacturing Systems (CMS), Ljubljana, Slovenia, June 12-14, 2019*. Amsterdam: Elsevier, 2019. Vol. 81, f. 832-837, ilustr. Procedia CIRP, vol. 81. ISSN 2212-8271. https://www.sciencedirect.com/science/article/pii/S221282711930513X, DOI: 10.1016/j.procir.2019.03.208. [COBISS.SI-ID 16675611], [SNIP, WoS]

4. KRIŽAJ, David, **VUKAŠINOVIĆ, Nikola**. Analysis of implementation of MBD and STEP AP242 standard into modern CAD tools. V: VALENTINČIČ, Joško (ur.), LEVY, Paul R. (ur.), SABOTIN, Izidor (ur.). *The MIT International Conference 2018, 12th - 15th September, 2018 Izola, Slovenia*. Târgu Jiu: [s. n.], 2019. Vol. 17, no. 1, ilustr. Research and Science Today Supplement, no. 1. ISSN 2344-0007. https://www.rstjournal.com/?mdocs-file=2515. [COBISS.SI-ID 16768795]
5. ČAKŠ, Žiga, ĆORLUKA, Željko, DUHOVNIK, Jože, KOKELJ, Gašper, KRAJNC, Matija, LEJLA, Vida, OSELI, Alen, SOMOGYVÁRI, Mónika, VERDEGUER LOPEZ, Javier, **VUKAŠINOVIĆ, Nikola**. *Handküchengerät mit zwei Abtrieben = Hand-held kitchen appliance with two drives : Europäische Patentschrift EP2394546 (B1), 2018-08-08*. München: Europäisches Patentamt, 2018. 17 f., ilustr. [COBISS.SI-ID 12125723] patentna družina: EP2394546 (A1), 2011-12-14; DE102010029963, 2010-06-10; DE102011077334 (A1), 2011-12-29; ES2689111 (T3), 2018-11-08; SI/EP2394546 (T1), 2018-11-30

Matevž Zupančič:

1. HADŽIĆ, Armin, MOŽE, Matic, **ZUPANČIČ, Matevž**, GOLOBIČ, Iztok. Superbiphilic laser-microengineered surfaces with a self-assembled monolayer coating for exceptional boiling performance. *Advanced functional materials*. [Online ed.]. Mar. 2024, vol. 34, iss. 10, [article no.] 2310662, str. 1-14, ilustr. ISSN 1616-3028. https://onlinelibrary.wiley.com/doi/full/10.1002/adfm.202310662, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1002/adfm.202310662. [COBISS.SI-ID 173601027].
2. **ZUPANČIČ, Matevž**, FONTANAROSA, Donato, MOŽE, Matic, BUCCI, Mattia, VODOPIVEC, Matevž, NAGARAJAN, Balasubramanian, VETRANO, Maria Rosaria, CASTAGNE, Sylvie, GOLOBIČ, Iztok. Enhanced nucleate boiling of Novec 649 on thin metal foils via laser-induced periodic surface structures. *Applied thermal engineering*. [Print ed.]. Jan. 2024, vol. 236, pt. d, str. 1-13, ilustr. ISSN 1359-4311. https://www.sciencedirect.com/science/article/pii/S135943112301832X, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.applthermaleng.2023.121803. [COBISS.SI-ID 170665731].
3. BERCE, Jure, ARHAR, Klara, HADŽIĆ, Armin, **ZUPANČIČ, Matevž**, MOŽE, Matic, GOLOBIČ, Iztok. Boiling-induced surface aging and crystallization fouling of functionalized smooth and laser-textured copper interfaces. *Applied thermal engineering*. [Print ed.]. Apr. 2024, vol. 242, [article no.] 122540, str. 1-17, ilustr. ISSN 1359-4311. https://www.sciencedirect.com/science/article/pii/S1359431124002084, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.1016/j.applthermaleng.2024.122540. [COBISS.SI-ID 182964995].

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]