



TECHNICKÁ UNIVERZITA V KOŠICIACH
Fakulta výrobných technológií

Prehľad vedecko-výskumnej činnosti na vysokej škole a dosiahnutých
výsledkov v tejto činnosti

Ing. Jozef Husár, PhD.
Prešov, 2023

1. Prehľad riešených výskumných úloh

a) Grantové projekty domáce

APVV

- APVV-19-0590 Modulárne multifunkčné kontrolné pracovisko s využitím techník výpočtovej inteligencie (2020 - 2024). (spoluriešiteľ)

KEGA

- **KEGA - 038TUKE-4/2022 - Kreovanie didaktických prostriedkov využitím nástrojov zmiešanej reality pre nový študijný program Smart technológie v priemysle (zodpovedný riešiteľ)**
- KEGA 055TUKE-4/2020 Transfer poznatkov z výskumu digitalizácie výrobných procesov do študijných programov Fakulty výrobných technológií. (2020 - 2022). (spoluriešiteľ)
- **KEGA 026TUKE-4/2018 Popularizácia problematiky Industry 4.0 a digitalizácie podniku, ako nástroja rozširovania technických vedomostí a zručností u žiakov stredných škôl. (2018 - 2020). (zodpovedný riešiteľ)**
- 078TUKE-4/2015 Adaptácia podnikového informačného systému pre podmienky masovej customizácie za účelom interaktívnej výučby v študijnom programe Riadenie výroby. (2015 - 2017). (spoluriešiteľ)
- 013TUKE-4/2012 Aplikácia e-learningu vo výučbe cudzích jazykov na Fakulte výrobných technológií. (2012 - 2014). (spoluriešiteľ)
- 054TUKE-4/2012 Vývoj Web Learning Systému pre podporu externej formy výučby v študijnom programe Riadenie výroby. (2012 - 2014). (spoluriešiteľ)

VEGA

- VEGA 1/0700/20 Identifikácia nezhôd strojárskych výrobkov pokročilými technikami rozpoznávania objektov s využitím konvolučných neurónových sietí (spoluriešiteľ)
- VEGA 1/0268/22 Návrh digitálneho dvojčaťa pre monitoring výrobných parametrov technologických zariadení s využitím rozšírenej reality (spoluriešiteľ)
- VEGA 1/0393/18 Výskum metód modelovania a kompenzácie hysterézy v pneumatických umelých svaloch a mechanizmoch nimi poháňaných pre zvýšenie presnosti regulácie s podporou výpočtovej inteligencie (2018 - 2021). (spoluriešiteľ)
- VEGA 1/0440/18 Výskum technického systému pre identifikáciu priemeru a vibrácií obrobkov počas výrobných operácií v automobilovom priemysle (2018 – 2020). (spoluriešiteľ)
- VEGA 1/0419/16 Skúmanie zložitosti a priepustnosti výrobných systémov s využitím nástrojov axiomatického dizajnu a teórie entropie. (2016 - 2018). (spoluriešiteľ)

Projekty EÚ

- Rozvoj excelentných výskumných kapacít v oblasti aditívnych technológií pre Priemysel 21 storočia ITMS kód projektu 313011BWN5 (spoluriešiteľ)

- Vysoké školy ako motory rozvoja vedomostnej spoločnosti, ITMS kód projektu 26110230120. Inovácia študijných programov, vzdelávanie študentov v podmienkach podnikovej praxe, modernizácia výučbových priestorov (2015) (spoluriešiteľ)
- Automatizácia a robotizácia pre výrobné procesy 21. storočia, ITMS kód projektu 313011T566. (spoluriešiteľ)
- Podpora a rozšírenie Centra výskumu v doprave CVD PLUS, ITMS kód projektu 26220220160. (spoluriešiteľ)

b) Grantové projekty zahraničné

H2020

- H2020-MG-2016-2017 Development of 'Less than Wagon Load' transport solutions in the Antwerp Chemical cluster (spoluriešiteľ)

EUREKA

- 11158 U Health Auto-ID technology and the Internet of Things to enhance the quality of health services (spoluriešiteľ)

EUROSTARS

- EUROSTARS BRIDGE2ERA The development of sintered 3D printed parts made from sintersible PUR coated cellulose nano-whiskers fits into the strategic orientation of the university to cooperation with SME (spoluriešiteľ)

Projekty SAIA

- Action Austria-Slovakia 2022-10-15-002, Sustainable Production Systems - Empowering the next generation of technicians for greener technology (spoluriešiteľ)
- Action Austria-Slovakia 2021-05-15-001, Action Austria-Slovakia, Sustainable Production Systems-Enhancing Science and Education (spoluriešiteľ)

c) Nadačné projekty domáce

Nadácia Tatrabanky

- **Smart4Student - Nadácia Tatra banky - Grantový program Kvalita vzdelávania 2022 (zodpovedný riešiteľ)**
- **Industry4School - Nadácia Tatra banky - Grantový program Kvalita vzdelávania 2019 (zodpovedný riešiteľ)**

2. Účasť vo výboroch medzinárodných vedeckých konferencií

- 1) 4th International Conference on Intelligent Systems in Production Engineering and Maintenance ISPEM 2023**
13-15.09.2023, Wrocław, Poľsko
Člen organizačného výboru
zodpovedný za sekciu 01 - Recent Advances of Augmented, Virtual and Mixed Reality Systems
zodpovedný za sekciu 02 - Industry 5.0: challenges and new strategies
- 2) 8th EAI International Conference on Management of Manufacturing Systems (EAI MMS 2023)**
24-26.10.2023 Bratislava, Slovensko
Člen organizačného výboru
- 3) 7th EAI International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures (EAI FABULOUS 2023)**
24-26.10.2023 Bratislava, Slovensko
Člen organizačného výboru
- 4) 9th EAI International Conference on Mobility, IoT and Smart Cities (EAI Mobility IoT 2022)**
15-16.12.2022 Bratislava, Slovakia (Online)
Člen organizačného výboru
- 5) 7th EAI International Conference on Management of Manufacturing Systems (EAI MMS 2022)**
05.-07.10.2022 Krynica- Zdroj, Poľsko
Člen organizačného výboru
- 6) 4th Grabchenko's International Conference on Advanced Manufacturing Processes (InterPartner-2022)**
06.-09.09.2022 Odessa, Ukraine (online)
Člen organizačného výboru
zodpovedný za sekciu 03 - Design Engineering
- 7) 5th International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE 2022)**
07-10.06.2022 Sumy, Ukrajine (online)
Člen organizačného výboru – zodpovedný za sekciu 11 - Advanced Materials I
- 8) 6th EAI International Conference on Future Access Enablers of Ubiquitous and Intelligent Infrastructures (EAI FABULOUS 2022)**
04.05.2022 Zagreb, Croatia (online)
Člen organizačného výboru
- 9) MANUFACTURING 2022**
16-19.05.2022 Poznaň, Poľsko
Člen vedeckého výboru – zodpovedný za sekciu 06 - Augmented, Virtual and Mixed Reality Systems

- 10) 2nd International Conference “Innovation in Engineering”, (ICIE 2022)**
28-30.06.2022 Guimarães, Portugalsko
Člen vedeckého výboru

- 11) 26th International Slovak-Polish Scientific Conference on Machine Modelling and Simulations (Machine Modelling and Simulations 2021)**
13-15.09.2021 Bardejovské kúpele, Slovensko
Člen organizačného výboru

- 12) 8th EAI International Conference on Mobility, IoT and Smart Cities (EAI Mobility IoT 2021)**
24-26.11.2021 (Online)Portugal
Člen vedeckého výboru

- 13) 6th EAI International Conference on Management of Manufacturing Systems (MMS 2021)**
06-08.10.2021 (Online)
Člen organizačného výboru

- 14) 7th EAI International Conference on Mobility, IoT and Smart Cities (EAI Mobility IoT 2020)**
04.12.2020 (Online)
Člen vedeckého výboru

- 15) 5th EAI International Conference on Management of Manufacturing Systems (MMS 2020)**
27-28.10.2020 (Online)
Člen organizačného výboru

- 16) 4th EAI International Conference on Management of Manufacturing Systems (MMS 2019)**
08-10.10.2019 Krynica Zdroj, Poľsko
Člen organizačného výboru

- 17) 3th EAI International Conference on Management of Manufacturing Systems (MMS 2018)**
06-08.11.2018 Dubrovnik, Chorvátsko
Člen organizačného výboru

- 18) 2nd EAI International Conference on Management of Manufacturing Systems (MMS 2017)**
22-24.11.2017 Starý Smokovec, Slovensko
Člen organizačného výboru

- 19) 1st EAI International Conference on Management of Manufacturing Systems (MMS 2016)**
22-24.11.2016 Bratislava, Slovensko
Člen organizačného výboru

- 20) 5th International Scientific Conference MANAGEMENT OF MANUFACTURING SYSTEMS 2015 (MMS 2015)**
23-25.09.2015 Starý Smokovec, Slovensko
Člen organizačného výboru

21) 4th International Scientific Conference MANAGEMENT OF MANUFACTURING SYSTEMS 2014(MMS 2014)

01-03.10.2014 Starý Smokovec, Slovensko
Člen organizačného výboru

22) 2nd International Conference on Manufacturing Engineereing &Management 2012 (ICMEM 2012)

05-07.12.2012 Prešov, Slovensko
Člen organizačného výboru

23) 1st International Conference on Manufacturing Engineereing &Management 2010 (ICMEM 2010)

25-26.11.2010 Prešov, Slovensko
Člen organizačného výboru

3. Prehľad zahraničných mobilít a stáží

CEEPUS

- Strojnícka fakulta, Technická Univerzita v Poznani, Poľsko

ERASMUS+

- Strojnícka fakulta, Technická Univerzita v Poznani, Poľsko

Výskumné pobyty

- Téma: Research and Modeling of Digital Twin for Smart Manufacturing Assembly System. Fakulta technických systémov a energetickej techniky Štátnej univerzity v Sumy, Ukrajina

4. Prehľad pozvaných prednášok

- Pozvaná prednáška na ITMA Industry Summit 2022, Bratislava, Slovensko. Téma prednášky: Experimental Smart Manufacturing Assembly System (MAS) Implementing the Industry 4.0 Concept
- Pozvaná prednáška na Siemens Realize LIVE 2022, Berlín, Nemecko. Téma prednášky: Digital Twin of an experimental smart manufacturing assembly system for the Industry 4.0 concept

5. Recenzie vedeckých príspevkov a vzdelávacích materiálov

Vypracovanie recenzií vedeckých príspevkov na konferenciách prezentovaných v bode 2 indexovaných v databázach Web of Science, Scopus.

Vypracovanie recenzii príspevkov publikovaných v časopisoch indexovaných v databázach
Current Contents Connect, Web of Science.

Počet recenzovaných príspevkov	Názov časopisu	Databáza
32	Applied Sciences (ISSN 2076-3417)	Current Contents Connect
17	Wireless Networks (1022-0038)	Current Contents Connect
8	Materials (ISSN 1996-1944)	Current Contents Connect
7	Sustainability (ISSN 2071-1050)	Current Contents Connect
3	Mobile Networks and Applications (ISSN 1383-469X)	Current Contents Connect
3	Sensors (ISSN 1424-8220)	Current Contents Connect
2	Coatings (ISSN 2079-6412)	Current Contents Connect
2	Inventions (ISSN 2411-5134)	Web of Science
2	Symmetry-Basel (ISSN 2073-8994)	Current Contents Connect
1	Computers (ISSN 2073-431X)	Web of Science
1	Acta Logistica (ISSN 1339-5629)	Web of Science
1	Electronics (ISSN 2079-9292)	Current Contents Connect
1	Future Internet (ISSN 1999-5903)	Web of Science
1	Journal of Imaging (ISSN 2076-3417)	Web of Science

6. Prehľad preukázateľných citácií a ohlasov na vedecké a odborné práce (WoS)

Web of Science™ Citations	
Title	Implementation of Augmented Reality into the Training and Educational Process in Order to Support Spatial Perception in Technical Documentation
Authors	KAŠČAK, Jakub - TÖRÖKOVÁ, Monika - TÖRÖK, Jozef - BARON, Petr - ZAJAC, Jozef - HUSÁR, Jozef
Source information	2019 IEEE 6TH INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND APPLICATIONS (ICIEA), p.583-587, 2019
[1] Kascak, Jakub et al. Conceptual Use of Augmented Reality in the Maintenance of Manufacturing Facilities In: ADVANCES IN MANUFACTURING III, VOL 2: PRODUCTION ENGINEERING: RESEARCH AND TECHNOLOGY INNOVATIONS, INDUSTRY 4.0, pp. 241-252, 2022	

<p>[2] Dobransky, Jozef, Pollak, Martin Monitoring and Evaluation of the Production Process of Automotive Connectors In: TEM Journal : Technology, Education, Management, Informatics Roč. 10, č. 2 (2021), p. 900-907 ISSN: 2217-8309</p> <p>[3] Gong, Liang, Fast-Berglund, Asa, Johansson, Bjorn A Framework for Extended Reality System Development in Manufacturing In: IEEE Access : practical innovations, open solutions Roč. 9 (2021), p. 24796-24813 ISSN: 2169-3536</p> <p>[4] Sukhodub, Leonid et al. ZnO coatings on Ti6Al4V substrate: Structural and antibacterial properties in literature review and research In: Management systems in production engineering Roč. 28, č. 4 (2020), s. 318-324 ISSN: 2299-0461</p> <p>[5] Dengen, Nathaniel et al. an Augmented Reality Model Physical Transformation Learning In: 2019 INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS AND INFORMATION ENGINEERING (ICEEIE) 255-259 ISBN: 978-1-7281-4160-2 (online)</p> <p>[6] ZALOGA, Viliam et al. Enhancing efficiency by implementation of integrated management system in order to align organisational culture and daily practice In: Management Systems in Production Engineering Vol. 28, no. 4 (2020), p. 304-311 ISSN: 2299-0461</p> <p>[7] KUZNETSOV, E., NAHORNYI, V., KRENICKY, T. Gas flow simulation in the working gap of impulse gas-barrier face seal In: Management Systems in Production Engineering Vol. 28, no. 4 (2020), p. 298-303 ISSN: 2299-0461</p> <p>[8] DOBRANSKY, Jozef - POLLAK, Martin - DOBOS, Zigmund Assessment of Production Process Capability in the Serial Production of Components for the Automotive Industry In: Management Systems in Production Engineering Vol. 27, no. 4 (2019), p. 255-258 ISSN: 2299-0461</p>	
Title	Material recycling of some automobile plastics waste
Authors	KNAPČÍKOVÁ, Lucia - BALOG, Michal - HUSÁR, Jozef - SZILÁGYI, Eri
Source information	Przemysl Chemiczny. Vol. 95, no. 9, p.1716-1720, 2016
<p>[1] CZARNECKA-KOMOROWSKA, Dorota et al. Recycling of Plastics from Cable Waste from Automotive Industry in Poland as an Approach to the Circular Economy In: Polymers Vol.13, no.21 (2021), art.no.3845 ISSN: 2073-4360</p> <p>[2] MESAROS, Peter et al. Adaptive design of formworks for building renovation considering the sustainability of construction in BIM environment-case study In: Sustainability Vol. 13, no. 2 (2021), art. no. 799 ISSN: 2071-105</p> <p>[3] MANDIČAK, Tomas et al. Impact of Information and Communication Technology on Sustainable Supply Chain and Cost Reducing of Waste Management in Slovak Construction In: Sustainability Vol. 13, no. 14 (2021), art. no. 7966 ISSN: 2071-105</p> <p>[4] MESAROS, Peter et al. Use of BIM technology and impact on productivity in construction project management In: Wireless Networks, Early Access, ISSN 1022-0038</p> <p>[5] PETRUŠ, Michal et al. The evaluation of the production of the shaped part using the workshop programming method on the two-spindle multi-axis CTX alpha 500 lathe In: Open Engineering Vol. 9, no. 1 (2019), p. 660-667 ISSN: 2391-5439</p> <p>[6] DUPLÁK, Ján et al. Evaluation of Time Efficiency of High Feed Milling In: TEM Journal Vol. 7, no. 1 (2018), p. 13-18 ISSN: 2217-8309</p> <p>[7] ZAJAC, Jozef et al. Experimental High Speed Milling of the Selected Thin-Walled Component In: TEM Journal: Technology Education Management Informatics Vol. 6, no. 4 (2017), p. 678-682 ISSN: 2217-8309</p>	
Title	Evaluation of Foreign Languages Teaching in LMS Conditions by Facility and Discrimination Index
Authors	HUSAR, JOZEF – DUPLAKOVA, DARINA
Source information	TEM Journal, Vol. 5, No. 1, p.44-49, 2016

- [1] Bystrenina, Irina - Nikitin, Petr Adaptive Knowledge Control in Digital Learning as a Factor in Improving the Quality of Education In: Education Sciences Vol.12, no.10 (2022), art. no. 638 ISSN: 2227-7102
- [2] LI, Mengfan - Wang, Ting - Lu, Wei - Wang, Mengke Optimizing the Systematic Characteristics of Online Learning Systems to Enhance the Continuance Intention of Chinese College Students In Sustainability Vol.14, no.18 (2022), art. no. 11774 ISSN: 2071-1050
- [3] VILLEGAS-Ch, William - GARCIA-ORTIZ, Joselin - SANCHEZ-Viteri, Santiago Proposal for the Analysis of the State of Learning in University Students with the Inclusion of ICT in the Classroom In: Information Vol.13, no.8 (2022), art. no. 391 ISSN: 2078-2489
- [4] KONSTANTAKIS, Markos et al. An Exploratory Study of Mobile-Based Scenarios for Foreign Language Teaching in Early Childhood In: Education Sciences Vol.12, no.5 (2022), art. no. 306 ISSN: 2227-7102
- [5] CUEVA, Andrea – Inga, Esteban Information and Communication Technologies for Education Considering the Flipped Learning Model In: Education Sciences Vol.12, no.3 (2022), art. no. 207 ISSN: 2227-7102
- [6] YONG, Han et al. Online Blended Learning in Small Private Online Course In: Applied Sciences Vol. 11, no. 15 (2021), art. no. 7100 ISSN: 2076-3417
- [7] VILLEGAS-CH, William et al. Analysis of Educational Data in the Current State of University Learning for the Transition to a Hybrid Education Model In: Applied Sciences Vol. 11, no. 5 (2021), art. no. 2068 ISSN: 2076-3417
- [8] MA, Yongqiang et al. Research on the construction and optimization of distributed Moodle course platform In: Computer Applications in Engineering Education DOI: 10.1002/cae.22276 ISSN: 1061-3773
- [9] BILOTSERKOVETS, Marina - GUBINA, Oksana Target Language Teaching by Means of E-Learning: A Case Study In: Revista Romaneasca Pentru Educatie Multidimensionala Vol. 11, no. 4 (2019), p. 17-29 ISSN: 2066-7329
- [10] GLUCHMANOVA, Marta Using the moodle platform in english teaching In: TEM Journal - Technology Education Management Informatics Vol. 5, no. 4 (2016), p. 492-497 ISSN: 2217-8309
- [11] Balog, Michal et al. Optimization of Time Structures in Manufacturing Management by using Scheduling Software Legin, TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS 5 (3) , pp.319-323 (2016) ISSN 2217-8309

Title	Validation of the serviceability of the manufacturing system using simulation
Authors	LAZÁR, Ivan - HUSÁR, Jozef
Source information	Journal on Efficiency and Responsibility in Education and Science. Vol. 5, no. 4, p. 252-261, 2012

- [1] Kovbasiuk, Kateryna - Balog, Michal - Zidek, Kamil Designing an Automated Assembly Workplace in a Simulation Environment In: ADVANCES IN MANUFACTURING III, VOL 2: PRODUCTION ENGINEERING: RESEARCH AND TECHNOLOGY INNOVATIONS, INDUSTRY 4.0, pp. 25-49, 2022 ISSN 2195-4356
- [2] Demcak, Jakub et al. The Experimental SMART Manufacturing System in SmartTechLab In: ADVANCES IN MANUFACTURING III, VOL 2: PRODUCTION ENGINEERING: RESEARCH AND TECHNOLOGY INNOVATIONS, INDUSTRY 4.0, pp. 228-238, 2022 ISSN 2195-4356
- [3] Castaneda-Mancillas, Edson E. et al. A Design Proposal: Virtual Reality Environment for Safety Training in Electrical Substations In: ADVANCES IN MANUFACTURING III, VOL 2: PRODUCTION ENGINEERING: RESEARCH AND TECHNOLOGY INNOVATIONS, INDUSTRY 4.0, pp. 278-291, 2022 ISSN 2195-4356
- [4] GAŠPAR, Štefan et al. Influence of Gating System Parameters of Die-Cast Molds on Properties of Al-Si Castings / Štefan Gašpár ... [et al.] - 2021. In: Materials, Vol. 14,Nb. 13 (2021) ISSN 1996-1944
- [5] ŽIDEK, Kamil et al. Cnn training using 3d virtual models for assisted assembly with mixed reality and collaborative robots In: Applied Sciences Vol. 11, no. 9 (2021), art. no. 4269 ISSN: 2076-3417
- [6] ŽIDEK, Kamil et al. Digital Twin of Experimental Smart Manufacturing Assembly System for Industry 4.0 Concept In: Sustainability Vol. 12, no. 9 (2020), art.no. 3658 ISSN: 2071-1050
- [7] FLIMEL, Marián - DUPLÁKOVÁ, Darina Ergonomic rationalization of transmitted vibration to hands of the workers In: Journal of Vibration and Control Vol. 23, no. 4 (2017), p. 517-525 ISSN: 1077-5463
- [8] LAZAR, Ivan et al. Verification of sequential patterns in production using information entropy In: Tehnički vjesnik - Technical Gazette. Vol. 20, no. 4 (2013), p. 669-676. - ISSN 1330-3651

Title	Investigation of used Conveyor Belts by the Differential Scanning Calorimetry Analysis
Authors	KNAPČÍKOVÁ, Lucia - BALOG, Michal - MINĎAŠ, Miroslav - HUSÁR, Jozef
Source information	TEM Journal. Vol. 5, no. 1, p. 21-24., 2016
<p>[1] GASPAR, Stefan - PASKO, Jan, Technological Aspects of Returnable Material Introducing within Die Casting Technology In: TEM JOURNAL-TECHNOLOGY EDUCATION MANAGEMENT INFORMATICS 5 (4) , pp.441-445 (2016) ISSN 2217-8309</p> <p>[2] KNAPČÍKOVÁ, Lucia et al. Material recycling of some automobile plastics waste In: Przemysl Chemiczny 95 (9) , pp.1716-1720 (2016) ISSN 0033-2496</p> <p>[3] GASPAR, Stefan - PASKO, Jan - MAJERNIK, Jan Specific Pressure and Mechanical Properties of the Alternator Flange from EN AC 47100 Alloy in HPDC Technology In: TEM Journal-Technology Education Management Informatics Vol. 5, no. 2 (2016), p. 160-164 ISSN: 2217-8309</p>	
Title	Polylactic Acid and Its Cellulose Based Composite as a Significant Tool for the Production of Optimized Models Modified for Additive Manufacturing
Authors	KAŠČAK, Jakub - GAŠPÁR, Štefan - PAŠKO, Ján - HUSÁR, Jozef - KNAPČÍKOVÁ, Lucia
Source information	Sustainability, Vol. 13, Issue 3, p. 1256, 2021
<p>[1] Balashov, Artem - Burduk, Anna - Husar, Josef Composite Lamina Model Design with the Use of Heuristic Optimization In: Materials Vol.16, Nb.2, 495 (2023) ISSN: 1996-1944</p> <p>[2] Kumar, Ramesh et al. Experimental and RSM-Based Process-Parameters Optimisation for Turning Operation of EN36B Steel In: Materials, Vol.16, Nb.1, 339 (2023) ISSN: 1996-1944</p> <p>[3] Jurko, Jozef et al. Turned Surface Monitoring Using a Confocal Sensor and the Tool Wear Process Optimization In: Processes Vol.10, Nb. 12, 2599 (2022) ISSN 2227-9717</p> <p>[4] Garrido, Ricard et al. Potential Use of Cow Manure for Poly(Lactic Acid) Production In: Sustainability, Vol.14, Nb.24, 16753 (2022) ISSN 2071-1050</p> <p>[5] Straka, L'uboslav et al. Efficiency Optimization of the Electroerosive Process in mu-WEDM of Steel MS1 Sintered Using DMLS Technology In: Micromachines Vol.13, Nb.9, 1441 (2022) ISSN 2072-666X</p> <p>[6] Lishchenko, Natalia - Pitel, Jan - Larshin, Vasily Online Monitoring of Surface Quality for Diagnostic Features in 3D Printing In: Machines, Vol.10, Nb.7, 541 (2022) ISSN 2075-1702</p> <p>[7] Petousis, Markos et al. Multifunctional Material Extrusion 3D-Printed Antibacterial Polylactic Acid (PLA) with Binary Inclusions: The Effect of Cuprous Oxide and Cellulose Nanofibers In: Fibers, Vol. 10, Nb.5, 52 (2022). ISSN 2079-6439</p> <p>[8] Stepanova, Mariia - Korzhikova-Vlakh, Evgenia Modification of Cellulose Micro- and Nanomaterials to Improve Properties of Aliphatic Polyesters/Cellulose Composites: A Review In. Pomylers, Vol.14, Nb.7, 1477 (2022). ISSN 2073-4360</p> <p>[9] Ivchenko, Oleksandr et al. Method for an Effective Selection of Tools and Cutting Conditions during Precise Turning of Non-Alloy Quality Steel C45 In: Materials Vol.15, Nb 2, 505 (2022) ISSN 1996-1944</p> <p>[10] Coranic, Tomas, Mascenik, Jozef STRENGTH ANALYSIS OF SCREW CONVEYOR DRIVE In: MM SCIENCE JOURNAL, Vol. 2021 pp. 5488-5491 (2021) ISSN: 1803-1269</p> <p>[11] Pollak, Martin, Kocisko, Marek, Basistova, Anna Experimental Production of Composite Fiber for Additive Production Technology In: TEM Journal : Technology, Education, Management, Informatics Roč. 10, č. 2 (2021), 939-946 ISSN: 2217-8309</p> <p>[12] GASPAR, Stefan et al. Influence of Gating System Parameters of Die-Cast Molds on Properties of Al-Si Castings In: Materials, Vol. 14, Nb.13, 3755, ISSN 1996-1944</p> <p>[13] Kaščák, Jakub et al. Design of an Atypical Construction of Equipment for Additive Manufacturing with a Conceptual Solution of a Printhead Intended for the Use of Recycled Plastic Materials, APPLIED SCIENCES, Vol.11, Nb.7, 2928, ISSN 2076-3417</p>	

Title	Research and Evaluation of the Influence of the Construction of the Gate and the Influence of the Piston Velocity on the Distribution of Gases into the Volume of the Casting
Authors	MAJERNÍK, Ján - GAŠPÁR, Štefan - HUSÁR, Jozef - PAŠKO, Ján - KOLINSKY, Jan
Source information	Materials, Vol. 14, Issue 9, 2264, 2021
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Authors	BEHÚNOVÁ, Annamária - HUSÁR, Jozef - BEHÚN, Marcel - KNAPČÍKOVÁ, Lucia

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Title	Verification of sequential patterns in production using information entropy
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Authors	HUSÁR, Jozef - KNAPČÍKOVÁ, Lucia
Source information	Acta Logistica, Vol. 8, Issue 2, p.133-139, 2021
<p>[1] Zhang, Jun - Zhang, Xueyan - Zhang, Ning Considering pickers' learning effects in selecting between batch picking and batch-synchronized zone picking for online-to-offline groceries In: APPLIED MATHEMATICAL MODELLING Vol. 113, p.358-375 (2023) ISSN 0307-904X</p> <p>[2] Mascenik, Jozef APPLICATION OF TRIBOTECHNICAL DIAGNOSTIC METHODS IN CASE OF DETERMINATION OF COEFFICIENT OF OPERATIONAL RELIABILITY OF MACHINE TOOLS In: MM Science Journal, Vol. 2022, p. 6220-6224 (2022) ISSN 1803-1269</p> <p>[3] Mesarosova, Jana et al. IMPROVING THE LEVEL OF PREDICTIVE MAINTENANCE MATURITY MATRIX IN INDUSTRIAL ENTERPRISE In: Acta Logistica, Vol. 9, Nb. 2, p.183-193 (2022) ISSN 1339-5629</p> <p>[4] Richnak, Patrik - Fidlerova, Helena Impact and Potential of Sustainable Development Goals in Dimension of the Technological Revolution Industry 4.0 within the Analysis of Industrial Enterprises In: Energies, Vol. 15, Nb. 10, 3697 (2022) ISSN: 1996-1073</p> <p>[5] Mascenik, Jozef - Pavlenko, Slavko CONTROLLED TESTING OF BELT TRANSMISSIONS AT DIFFERENT LOADS In: MM Science Journal, Vol. 2021, p. 5497-5501 (2021) ISSN 1803-1269</p>	
Title	Influence of Gating System Parameters of Die-Cast Molds on Properties of Al-Si Castings
Authors	GAŠPÁR, Štefan – CORANIČ, Tomáš – MAJERNIK, Ján - HUSÁR, Jozef- KNAPČÍKOVÁ, Lucia – GOJDAN Dominik - PAŠKO, Ján
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Title	Implementation of Material Flow Simulation as a Learning Tool
Authors	HUSÁR, Jozef- KNAPČÍKOVÁ, Lucia – BALOG, Michal
Source information	ADVANCES IN DESIGN, SIMULATION AND MANUFACTURING, p. 33-41, 2019
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Title	Hand Tracking in Extended Reality Educational Applications
Authors	BUN, Pawel - HUSÁR, Jozef- KAŠČAK, Jakub
Source information	ADVANCES IN MANUFACTURING III, VOL 2: PRODUCTION ENGINEERING: RESEARCH AND TECHNOLOGY INNOVATIONS, INDUSTRY 4.0, p. 317-325, 2022
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Authors	KAŠČAK, Jakub - TÖRÖKOVÁ, Monika - TÖRÖK, Jozef - BARON, Petr - ZAJAC, Jozef - HUSÁR, Jozef
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Authors	LAZÁR, Ivan - HUSÁR, Jozef
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Title	Polylactic Acid and Its Cellulose Based Composite as a Significant Tool for the Production of Optimized Models Modified for Additive Manufacturing
Authors	KAŠČAK, Jakub - GAŠPÁR, Štefan - PAŠKO, Ján - HUSÁR, Jozef - KNAPČÍKOVÁ, Lucia
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Authors	MAJERNÍK, Ján - GAŠPÁR, Štefan - HUSÁR, Jozef - PAŠKO, Ján - KOLINSKY, Jan
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- Člen redakčnej rady časopisu Advances in Thermal Processes and Energy Transformation (ATPET) - ISSN 2585-9102
- Člen redakčnej rady časopisu Acta Simulatio - International Scientific Journal about Simulation - ISSN 1339-9640
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- Člen redakčnej rady časopisu Journal of Engineering Sciences - ISSN 2312-2498
- Člen redakčnej rady - Assembly Techniques and Technologies - e-ISSN 2450-8217
- The Senior Member in the EAI Community
- Člen International Association for Technological Development and Innovation

9. Prehľad ID výskumníka

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