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| Riešiteľ | BORKIN Dmitrii |
| Pozícia na projekte | Vedecko-výskumný pracovník |
| Vedecké identifikátory | WoS (Researcher ID): CFN-4497-2022, Scopus (AuthorID): 57210187956, RCID: |
| Vedecké zameranie | spracovanie dát a signálov |
| Publikačná činnosť s ohlami (aktuálne k 31.10.2022) | |
| V2 Vedecký výstup publikačnej činnosti ako časť editovanej knihy alebo zborníka | |
| V2_01 | BORKIN, Dmitrii - NÉMETH, Martin - NÉMETHOVÁ, Andrea [Peterková Andrea] - MICHALČONOK, German. Checking the identity of the state of qubits using the CSWAP operator. In <i>Process Control 2021 : 23rd International Conference on Process Control. Štrbské Pleso, Slovakia. June 1-4, 2021</i> . 1. ed. Danvers : IEEE, 2021, S. 302-307. ISBN 978-1-6654-0330-6. V databáze: DOI: 10.1109/PC52310.2021.9447537 ; SCOPUS: 2-s2.0-85111365217 ; WOS: 000723653400051. Typ výstupu: príspevok z podujatia; Výstup: domáci; Kategória publikácie do 2021: AFD |
| V2_02 | NÉMETH, Martin - BORKIN, Dmitrii - NÉMETHOVÁ, Andrea [Peterková Andrea] - MICHALČONOK, German. Deep drill-down analysis for failures detection in the production line. In <i>Process Control 2021 : 23rd International Conference on Process Control. Štrbské Pleso, Slovakia. June 1-4, 2021</i> . 1. ed. Danvers : IEEE, 2021, S. 325-330. ISBN 978-1-6654-0330-6. V databáze: DOI: 10.1109/PC52310.2021.9447500 ; SCOPUS: 2-s2.0-85111375221 ; WOS: 000723653400055. Typ výstupu: príspevok z podujatia; Výstup: domáci; Kategória publikácie do 2021: AFD |
| V3 Vedecký výstup publikačnej činnosti z časopisu | |
| V3_01 | BORKIN, Dmitrii - NÉMETH, Martin - MICHALČONOK, German - MEZENTSEVA, Olga. Adding additional features to improve time series prediction. In <i>Vedecké práce MTF STU v Bratislave so sídlom v Trnave. Research papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava</i> . Vol. 27, no. 45 (2019), s. 72-78. ISSN 1336-1589. V databáze: DOI: 10.2478/rput-2019-0028 ; INSPEC. Kategória publikácie do 2021: ADF |
| V3_02 | BORKIN, Dmitrii - NÉMETHOVÁ, Andrea [Peterková Andrea] - MICHALČONOK, German - MAJOROV, Konstantin. Impact of data normalization on classification model accuracy. In <i>Vedecké práce MTF STU v Bratislave so sídlom v Trnave. Research papers Faculty of Materials Science and Technology Slovak University of Technology in Trnava</i> . Vol. 27, no. 45 (2019), s. 79-84. ISSN 1336-1589. V databáze: DOI: 10.2478/rput-2019-0029 ; INSPEC. Kategória publikácie do 2021: ADF Ohlasy: 1. [1] DA SILVA, Leandro Marcos - SILVEIRA, Marcos Rogerio - CANSIAN, Adriano Mauro - KOBAYASHI, Hugo Koji. Multiclass Classification of Malicious Domains Using Passive DNS with XGBoost (Work in Progress). In 2020 IEEE 19TH INTERNATIONAL SYMPOSIUM ON NETWORK COMPUTING AND APPLICATIONS (NCA), 2020, vol., no., pp. ISSN 2643-7910., Registrované v: WOS, SCOPUS Ohlas: zahraničný |
| P1 Pedagogický výstup publikačnej činnosti ako celok | |
| P1_01 | STRÉMY, Maximilián - BORKIN, Dmitrii. <i>Programovateľné logické automaty</i> . 2. prepracované vyd. Trnava : Vydavateľstvo AlumniPress, 2019. 132 s. Dostupné na internete: <https://is.stuba.sk/auth/dok_server/dokumenty_cteni.pl?id=71208;on=2;dok=172711;serializace=56396303:1664866089:1516:user:fc98ff63ae7ef7d09a6143a7a79c2d7445688997>. ISBN 978-80-8096-264-7. Kategória publikácie do 2021: BCI |
| XXX XXX | |
| _01 | BORKIN, Dmitrii - KOZÁK, Štefan. Development of effective control system in LabView. In <i>ELITECH'17 [elektronický zdroj] : 19th Conference of doctoral students. Bratislava, Slovakia. May 24, 2017</i> . 1. ed. Bratislava : Spektrum STU, 2017, CD-ROM, [5] p. ISBN 978-80-227-4686-1. Kategória publikácie do 2021: AFD |
| _02 | BORKIN, Dmitrii - NÉMETH, Martin - NÉMETHOVÁ, Andrea [Peterková Andrea]. Using autoregressive integrated moving average (ARIMA) for prediction of time series data. In <i>Intelligent Systems Applications in Software Engineering : Proceedings of 3rd Computational Methods in Systems and Software 2019, Vol. 1 : Zlin, Czech Republic, 10-12 September</i> . 1. vyd. Cham : Springer, 2019, S. 470-476. ISSN 2194-5357. ISBN 978-3-030-30328-0. V databáze: SCOPUS: 2-s2.0-85075620241 ; WOS: 000564759600042. Kategória publikácie do 2021: AFC Ohlasy: 1. [1] KOLESNYK, Vitalii - PETERKA, Jozef - ALEKSEEV, Oleksandr - NESHTA, Anna - XU, Jinyang - LYSENKO, Bohdan - SAHUL, Martin - MARTINOVIČ, Jozef - HRBÁL, Jakub. Application of ANN for Analysis of Hole Accuracy and Drilling Temperature When Drilling CFRP/Ti Alloy Stacks. In <i>Materials</i> . Vol. 15, iss. 5 (2022), s. 1-21. ISSN 1996-1944 (3.623 - 2020). V databáze: DOI: 10.3390/ma15051940., Registrované v: SCOPUS, WOS, CC Ohlas: zahraničný 2. [1] MASCENIK, Jozef - YAKIMOVICH, Boris Anatolievich - DOMBRACHEV, Alexander Nikolaevich - SOLOMENNKOVA, Svetlana Ivanovna - SHEMYAKINA, Elvira Khamitovna. APPLICATION A CAM SYSTEM AS ENGINEERING METHOD OF INTENSITY CALCULATION. In <i>MM SCIENCE JOURNAL</i> , 2022, vol. 2022, no., pp. 5643-5650. ISSN 1803-1269., Registrované v: WOS Ohlas: zahraničný |

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_03 BORKIN, Dmitrii - BARTOŇ, Martin - NÉMETH, Martin - TANUŠKA, Pavol. Devices Control and Monitoring on the Production Level Using Wonderware Platform. In *Applied Informatics and Cybernetics in Intelligent Systems. CSOC 2020 : 9th Computer Science On-line Conference 2020 (CSOC 2020), April 23,2020 - April 26,2020*. 1. vyd. Cham : Springer, 2020, S. 224-229. ISSN 2194-5357 (print). ISBN 978-3-030-51973-5 (print). V databáze: DOI: 10.1007/978-3-030-51974-2_20 ; SCOPUS: 2-s2.0-85089623286.
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_04 BORKIN, Dmitrii - NÉMETH, Martin - NÉMETHOVÁ, Andrea [Peterková Andrea]. The Proposal of Customized Convolutional Neural Network Using for Image Blur Recognition. In *Software Engineering Perspectives in Intelligent Systems : 4th Computational Methods in Systems and Software, CoMeSySo 2020, 14.-17.10.2020, Vsetín, Czech Republic*. 1. vyd. Cham : Springer, 2020, S. 821-828. ISSN 2194-5357. ISBN 978-303063321-9. V databáze: DOI: 10.1007/978-3-030-63322-6_69 ; SCOPUS: 2-s2.0-85098229196.
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_05 ČAPKOVIČ, Martin. *Návrh vizualizácie systému riadenia vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2020. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=141638>.

_06 DANČIŠIN, Maroš. *Návrh vizualizácie systému riadenia vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2020. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=141553>.

_07 FRTÚS, Jaroslav. *Návrh a realizácia systému riadenia vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2020. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=141641>.

_08 HAFFNER, Oto - DRAHOŠ, Peter - BORKIN, Dmitrii - KOZÁK, Štefan - BAČA, Vladislav. Pracovisko strojového videnia. In *Nové trendy vo vzdelávaní [elektronický zdroj] : Stretnutie katediér automatizácie, kybernetiky, umelej inteligencie a informatiky. Banská Štiavnica, Slovensko. 3.-5.9.2017*. 1. vyd. Bratislava : Slovenská chemická knižnica, 2017, USB, [3] s. ISBN 978-80-89597-68-0.
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_09 HAFFNER, Oto - DRAHOŠ, Peter - BORKIN, Dmitrii - KOZÁK, Štefan - BAČA, Vladislav. Smart mechatronické systémy. In *Nové trendy vo vzdelávaní [elektronický zdroj] : Stretnutie katediér automatizácie, kybernetiky, umelej inteligencie a informatiky. Banská Štiavnica, Slovensko. 3.-5.9.2017*. 1. vyd. Bratislava : Slovenská chemická knižnica, 2017, USB, [3] s. ISBN 978-80-89597-68-0.
Kategória publikácie do 2021: AFD

_10 HALENÁR, Igor - JUHÁS, Martin - JUHÁSOVÁ, Bohuslava - BORKIN, Dmitrii. Virtualization of production using digital twin technology. In *ICCC 2019 [elektronický zdroj] : 20th International Carpathian Control Conference : Krakow - Wieliczka, Poland, May, 26-29, 2019*. 1. vyd. Krakow : IEEE, 2019, S. 1-5. ISBN 978-1-7281-0702-8. V databáze: DOI: 10.1109/CarpathianCC.2019.8765940 ; SCOPUS: 2-s2.0-85069883453 ; IEEE ; WOS: 000490570500017.
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5. [1] ÁVILA-GUTIÉRREZ, María Jesús - AGUAYO-GONZÁLEZ, Francisco - LAMA-RUIZ, Juan Ramón. Framework for the development of affective and smart manufacturing systems using sensorised surrogate models. In *Sensors*, 2021, 21, 7, pp. ISSN 14248220., Registrované v: SCOPUS, WOS, CC

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10. [1] BORGHESI, Andrea - DI MODICA, Giuseppe - BELLAVISTA, Paolo - GOWTHAM, Varun - WILLNER, Alexander - NEHLS, Daniel - KINTZLER, Florian - CEJKA, Stephan - TISBENI, Simone Rossi - COSTANTINI, Alessandro - GALLETI, Matteo - ANTONACCI, Marica - AHOANGONOU, Jean Christian. IoTwins: Design and implementation of a platform for the management of digital twins in industrial scenarios. In *Proceedings 21st IEEE/ACM International Symposium on Cluster, Cloud and Internet Computing, CCGrid 2021*, 2021, pp. 625-633., Registrované v: SCOPUS, WOS
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11. [1] STOCK, Daniel - SCHNEIDER, Matthias - BAUERNHANS, Thomas. Towards Asset Administration Shell-Based Resource Virtualization in 5G Architecture-Enabled Cyber-Physical Production Systems. In *Procedia CIRP*, 2021, 104, pp. 945-950. ISSN 22128271., Registrované v: SCOPUS
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14. [1] COSTANTINI, Alessandro - DI MODICA, Giuseppe - AHOANGONOU, Jean Christian - DUMA, Doina Cristina - MARTELLI, Barbara - GALLETI, Matteo - ANTONACCI, Marica - NEHLS, Daniel - BELLAVISTA, Paolo - DELAMARRE, Cedric - CESINI, Daniele. IoTwins: Toward Implementation of Distributed Digital Twins in Industry 4.0 Settings. In *Computers*, 2022-05-01, 11, 5, pp., Registrované v: SCOPUS, WOS
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15. [2] DE O. ROSAS, Hitalo Perseu - DE M. SALDANHA, Italo - PEREIRA, Vinicius M. B. - MUNIZ, Caíque V. L. - MACHADO, Guido S. - DE MEDERIOS, Renan L. P. - JUNIOR, Vicente F. L. Virtual Setup - Virtualização automática de plantas industriais. In *Simpósio Brasileiro de Automação Inteligente - SBAI 2021. Campinas : Sociedade Brasileira de Automação*, 2021, S. 1836-1841. ISSN 2175-8905.
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18. [1] GÖNNERMANN, Clemens - HASHEMI-PETROODI, S. Ehsan - THEVENIN, Simon - DOLGUI, Alexandre - DAUB, Ruediger. A skill- and feature-based approach to planning process monitoring in assembly planning. In: *INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY*, 2022, vol. 122, no. 5-6, pp. 2645-2670. ISSN 0268-3768., Registrované v: WOS, CC, SCOPUS
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- _11 HRTÁNEK, Adam. *Návrh a realizácia systému riadenia vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2019. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=134359>.
- _12 JAVORSKÝ, Jozef. *Návrh a realizácia systému riadenia vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2020. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=141654>.
- _13 KRCHNÁK, Miloš. *Návrh a realizácia systému riadenia vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2019. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=134329>.
- _14 KRIPPNEROVÁ, Antónia. *Návrh a realizácia systému riadenia a vizualizácie vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2020. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=146406>.
- _15 NÉMETH, Martin - BORKIN, Dmitrii - MICHALČONOK, German. The comparison of machine-learning methods XGBoost and LightGBM to predict energy development. In *Computational Statistics and Mathematical Modeling Methods in Intelligent Systems : Proceedings of 3rd Computational Methods in Systems and Software 2019, Vol. 2 : Zlin, Czech Republic, 10-12 September*. 1. vyd. Cham : Springer, 2019, S. 208-215. ISSN 2194-5357. ISBN 978-3-030-31361-6. V databáze: SCOPUS: 2-s2.0-85075596546.
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5. [1] GLAZYRIN, Vladimir - RUŽBARSKÝ, Juraj - NIKITIN, Yury R. - BOŽEK, Pavol - WALLYSON, Thomas de Silva. Study of dynamic processes during the finishing of spherical parts made of difficult - to - machine materials. In *MM Science Journal*. October (2022), s. 5937-5942. ISSN 1803-1269(P) (2020). V databáze: DOI: 10.17973/MMSJ.2022_10_2022013., Registrované v: WOS, SCOPUS
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3. [1] FERNANDES, Duarte - FERREIRA, André G. - ABRISHAMBAF, Reza - MENDES, José - CABRAL, Jorge. A machine learning-based dynamic link power control in wearable sensing devices. In *Wireless Networks*, 2021, 27, 3, pp. 1835-1848. ISSN 10220038., Registrované v: SCOPUS
 Ohlas: zahraničný

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 Kategória publikácie do 2021: AFC

_19 VOTRUBA, Hugo. *Návrh vizualizácie systému riadenia vybraných modulov linky MPS 500 pomocou PLC triedy Siemens*. 2019. Dostupné na internete: <http://is.stuba.sk/zp/portal_zp.pl?podrobnosti=153437>.

Štatistika: kategória publikačnej činnosti do 2021

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| P1 | P1 | 1 |
| V2 | V2 | 2 |
| V3 | V3 | 2 |
| XXX | Nezaradené | 19 |

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|--------------------------------------|---|-----------|
| Súčet | | 24 |
| Štatistika: kategória ohlasov | | |
| 1 | Citácie v zahraničných publikáciách, registrované v citačných indexoch Web of Science a databáze SCOPUS | 16 |
| Súčet | | 16 |