

TECHNICKÁ UNIVERZITA V KOŠICIACH
STROJNÍCKA FAKULTA

Katedra priemyselnej automatizácie a mechatroniky



**Prehľad preukázateľných citácií a ohlasov na vedecké
a odborné práce**

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Košice 2022

Skupina A1 (do 31.1.2022) - Knižné publikácie charakteru vedeckej monografie (AAA, AAB, ABA, ABB, ABC, ABD)

Počet záznamov: 1

AAB - Vedecké monografie vydané v domácich vydavateľstvách (1)

Skupina A2 (do 31.1.2022) - Ostatné knižné publikácie (ACA, ACB, BAA, BAB, BCB, BCI, CAA, CAB, EAI, EAJ, FAI)

Počet záznamov: 11

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (8)

BCI – Skriptá a učebné texty (2)

FAI - Redakčné a zostavovateľské práce knižného charakteru (bibliografie, encyklopédie, katalógy, slovníky, zborníky...) (1)

Skupina B (do 31.1.2022) - Publikácie v karentovaných časopisoch alebo registrované vo WoS a Scopus (ADC, ADD, BDC, BDD, CDC, CDD, ADM, ADN, BDM, BDN)

Počet záznamov: 32

ADC - Vedecké práce v zahraničných karentovaných časopisoch (19)

ADM - Vedecké práce v zahraničných časopisoch registrovaných v databázach Web of Science alebo SCOPUS (11)

ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS (2)

Skupina D (do 31.1.2022) - Ostatné publikácie (ACC, ACD, ADE, ADF, AEC, AED, AEG, AEH, AFA, AFB, AFC, AFD, AFE, AFF, AFG, AFH, AEM, AEN, BBA, BBB, BCK, BDA, BDB, BDE, BDF, BEE, BEF, BFA, BFB, CBA, CBB, CDE, CDF)

Počet záznamov: 139

ADE - Vedecké práce v zahraničných nekarentovaných časopisoch (46)

ADF - Vedecké práce v domácich nekarentovaných časopisoch (29)

AEC - Vedecké práce v zahraničných recenzovaných vedeckých zborníkoch, monografiách (14)

AFA - Publikované pozvané príspevky na zahraničných vedeckých konferenciách (2)

AFC - Publikované príspevky na zahraničných vedeckých konferenciách (15)

AFD - Publikované príspevky na domácich vedeckých konferenciách (29)

BDF - Odborné práce v domácich nekarentovaných časopisoch (2)

BEF - Odborné práce v domácich nerecenzovaných zborníkoch (konferenčných aj nekonferenčných) (2)

Skupina Patenty (do 31.1.2022) - Patentové prihlášky, prihlášky úžitkových vzorov, prihlášky dizajnov, prihlášky ochranných známok,... (AGJ)

Počet záznamov: 16

AGJ - Autorské osvedčenia, patenty, objavy (16)

Skupina Ostatné (do 31.1.2022) - mimo kategórií MŠVVaŠ SR (AFK, AFL, AGI, BGG, CAI, CAJ, CGC, CGD, CIA, CIB, CJA, CJB, CKA, CKB, DAI, EDJ, GAI, GHG, GII, CEC, CED, EDI)

Počet záznamov: 4

AGI - Správy o vyriešených vedeckovýskumných úlohách (2)

GII - Rôzne publikácie a dokumenty, ktoré nemožno zaradiť do žiadnej z predchádzajúcich kategórií (2)

Záznamy v kategóriách od 1.2.2022

Skupina V - Vedecký výstup publikačnej činnosti (V1, V2, V3)

Počet záznamov: 11

V2 - Výstup publikačnej činnosti ako časť editovanej knihy alebo zborník - Vedecký (5)

V3 - Výstup publikačnej činnosti z časopisu - Vedecký (6)

Počet záznamov spolu: 214

Citácie - ohlasy:

- [1] Citácie v zahraničných publikáciách, registrované v citačných databázach (WoS, Scopus) - **358**
- [2] Citácie v domácich publikáciách, registrované v citačných databázach (WoS, Scopus) - **6**
- [3] Citácie v zahraničných publikáciách, neregistrované v citačných databázach - **77**
- [4] Citácie v domácich publikáciách, neregistrované v citačných databázach – **39**

Menný zoznam publikácií:

ACB - Vysokoškolské učebnice vydané v domácich vydavateľstvách (8)

ACB001 [132267] **Meranie v mechatronike** / Michal Kelemen ... [et al.] - 1. vyd. - Košice : TU - 2013. - 146 s.. - ISBN 978-80-553-1388-7.

[KELEMEN, Michal (13%) - PUŠKÁR, Michal (37%) - VIRGALA, Ivan (13%) - MIKOVÁ, Ľubica (37%)]

Ohlasy:

- 1) 2013 [3] JEZŇÝ, Jaromír - ČURILLA, Miloslav Position measurement with hall effect sensors In: American Journal of Mechanical Engineering Vol. 1, no. 7 (2013), p. 231-235 ISSN: 2328-4102
- 2) 2014 [2] HARGAŠ, Libor, KONIAR, Dušan, HRIANKA, Miroslav Integration of LabVIEW-based virtual instruments to modern respirology diagnostics In: 10th International Conference, ELEKTRO 2014 - Proceedings : 19-20 May 2014, Rajecke Teplice, Slovakia S. 553-557 ISBN: 978-1-4799-3721-9 DB: Scopus
- 3) 2014 [1] HARGAŠ, Libor, KONIAR, Dušan, HRIANKA, Miroslav et al. Adjusting and conditioning of high speed videosequences for diagnostic purposes in medicine In: Elektro 2014 : 10th international conference : proceedings : Rajecké Teplice, May 19-20, 2014 P. 548-552 ISBN: 978-1-4799-3721-9 DB: Scopus
- 4) 2015 [3] HARGAŠ, Libor et al. Diagnostics of respiratory diseases based on virtual instrumentation In: Acta Technica Corviniensis - Bulletin of Engineering Vol. 8, no. 1 (2015), p. 105-108 ISSN: 2067-3809
- 5) 2014 [1] PALKOVIČ, L. et al. Remote laboratory with modular inertial measuring unit platform In: Procedia Engineering Vol. 96 (2014), p. 345-354 ISSN: 1877-7058 DB: Scopus
- 6) 2015 [1] LONCOVA, Zuzana et al. Parameters measurement of the object in a video sequence In: IFAC Papersonline, volume 48, issue 4 : 13th IFAC and IEEE Conference on Programmable Devices and Embedded Systems : Cracow, 13-15 May, 2015 P. 211-214 ISSN: 2405-8963 DB: WOS

ADC - Vedecké práce v zahraničných karentovaných časopisoch (19)

ADC001 [154550] **Miniature Mobile Bristled In-Pipe Machine** / Oskar Ostertag ... [et al.] - 2014.In: International Journal of Advanced Robotic Systems. Vol. 11 (2014), p. 1-9. - ISSN 1729-8806 Spôsob prístupu: http://www.intechopen.com/journals/volume/international_journal_of_advanced_robotic_systems/11/2014/1.

[OSTERTAG, Oskar (10%) - OSTERTAGOVÁ, Eva (30%) - KELEMEN, Michal (5%) - KELEMENOVÁ, Tatiana (20%) - BUŠA, Ján (15%) - VIRGALA, Ivan (20%)]

Ohlasy:

- 7) 2017 [1] MAJEWSKI, T., SZWEDOWICZ, D., MAJEWSKI, M. Locomotion of a mini bristle robot with inertial excitation In: Journal of Mechanisms and Robotics Vol. 9, no. 6 (2017) ISSN: 1942-4302 DB: Scopus [WOS:000414598900008]

- 8) 2017 [3] CARTER, David B. et al. Sewer pipe crawler : patent US9657884 B1 In: Patenty Google <https://www.google.com/patents/US9657884>
- 9) 2018 [1] GALAJDOVA, Alena, VIRGALA, Ivan, KELEMEN, Michal et al.: Influence of pipe geometric deviation on bristled in-pipe mobile robot locomotion In: INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS vol.15, no.3 (2018) ISSN:1729-8814 Doi:10.1177/1729881418775808 [WOS:000435001100001]
- 10) 2020 [3] MAJEWSKI, Tadeusz - LEDESMA ALONSO, Rene La mecánica detrás de las partículas auto-propulsadas In: SOMIM 2020 : Memorias Del 16th Congreso Internacional Anual De La Somim : Virtual space : 21-23 Octubre, 2020 P. 1-7 (2020)
- 11) 2020 [1] SAGA, Milan, BULEJ, Vladimir, CUBONOVA, Nadezda et al.: Case study: Performance analysis and development of robotized screwing application with integrated vision sensing system for automotive industry In: INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS vol.17, no.3 (2020) ISSN:1729-8814 Doi:10.1177/1729881420923997 [WOS:000536473600001]
- 12) 2020 [1] VIRGALA, Ivan, KELEMEN, Michal, BOZEK, Pavol et al.: Investigation of Snake Robot Locomotion Possibilities in a Pipe In: SYMMETRY-BASEL vol.12, no.6 (2020) eISSN:2073-8994 Doi:10.3390/sym12060939 [WOS:000550813800001]
- 13) 2020 [1] KELEMENOVA, Tatiana, DOVICA, Miroslav, BOZEK, Pavol et al.: Specific Problems in Measurement of Coefficient of Friction Using Variable Incidence Tribometer In: SYMMETRY-BASEL vol.12, no.8 (2020) eISSN:2073-8994 Doi:10.3390/sym12081235 [WOS:000567342300001]
- 14) 2021 [1] VIRGALA, Ivan, KELEMEN, Michal, PRADA, Erik et al.: A snake robot for locomotion in a pipe using trapezium-like travelling wave In: MECHANISM AND MACHINE THEORY vol.158, (2021) ISSN:0094-114X eISSN:1873-3999 Doi:10.1016/j.mechmachtheory.2020.104221 [WOS:000615930500008]
- 15) 2021 [1] SINCAK, Peter Jan, VIRGALA, Ivan, KELEMEN, Michal et al.: Chimney Sweeping Robot Based on a Pneumatic Actuator In: APPLIED SCIENCES-BASEL vol.11, no.11 (2021) eISSN:2076-3417 Doi:10.3390/app11114872 [WOS:000659634300001]
- 16) 2022 [1] KELEMEN, Michal, KELEMENOVA, Tatiana, VIRGALA, Ivan et al.: ROBOTIC GRIPPER ACTUATED USING THE SHAPE MEMORY ALLOY ACTUATORS In: MM SCIENCE JOURNAL vol.2022, (2022) p.5539-5545 ISSN:1803-1269 eISSN:1805-0476 Doi:10.17973/MMSJ.2022_03_2022015 [WOS:000767352900001]
- 17) 2022 [1] DAHALAN, A'qilah A., SAUDI, Azali, SULAIMAN, Jumat: Pathfinding for Mobile Robot Navigation by Exerting the Quarter-Sweep Modified Accelerated Overrelaxation (QSMAOR) Iterative Approach via the Laplacian Operator In: MODELLING AND SIMULATION IN ENGINEERING vol.2022, (2022) ISSN:1687-5591 eISSN:1687-5605 Doi:10.1155/2022/9388146 [WOS:000773068300001]

ADC002 [180107] **An inspection of pipe by snake robot** / František Trebuňa ... [et al.] - 2016.In: International Journal of Advanced Robotic Systems. Vol. 13, no. 5 (2016), p. 1-12. - ISSN 1729-8814 [TREBUŇA, František (20%) - VIRGALA, Ivan (20%) - PÁSTOR, Miroslav (20%) - LIPTÁK, Tomáš (20%) - MIKOVÁ, Ľubica (20%)]

Ohlasy:

- 18) 2017 [1] DAI, Jingzhou - XU, Yishen - ZHANG, Wenzeng SPC ROBOT: A Novel Pipe-climbing Robot with Spiral Extending of Coupled Differential In: ROBIO 2017: IEEE International Conference on Robotics and Biomimetics : Macau, 5-8 December, 2017 P. 1-6 ISBN: 978-153863741-8 DB: Scopus

- 19) 2018 [4] ÉLESZTŐS, Pavel - JANČO, Roland - VOŠTIAR, Vladimír Optimization of Welding Process Using a Genetic Algorithm In: Journal of MECHANICAL ENGINEERING - Strojnícky časopis Vol. 68, no. 2 (2018), p. 17-24 ISSN: 0039-2472
- 20) 2018 [1] BARANOWSKI, Leszek - SIWEK, Michal Use of 3D simulation to design theoretical and real pipe inspection mobile robot model In: Acta Mechanica et Automatica Vol. 12, no. 3 (2018), p. 232-236 ISSN: 1898-4088 [WOS:000448230600010]
- 21) 2018 [1] CHATTOPADHYAY, P. et al. Locomotion Methods of Pipe Climbing robots: A Review In: Journal of Engineering Science and Technology ReviewOpen Vol. 11, no. 4 (2018), p. 154-165 ISSN: 1791-9320 DB: Scopus
- 22) 2018 [1] GALAJDOVA, Alena, VIRGALA, Ivan, KELEMEN, Michal et al.: Influence of pipe geometric deviation on bristled in-pipe mobile robot locomotion In: INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS vol.15, no.3 (2018) ISSN:1729-8814 Doi:10.1177/1729881418775808 [WOS:000435001100001]
- 23) 2018 [1] LIPTAK, Tomas, VIRGALA, Ivan, MIKOVA, L'ubica et al.: Modeling and control of two-link snake In: INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS vol.15, no.2 (2018) ISSN:1729-8814 Doi:10.1177/1729881418760638 [WOS:000427549400001]
- 24) 2019 [1] TANG, Z. et all Design and simulation of artificial fish lateral line In: International Journal of Advanced Robotic Systems Vol. 16, no. 1 (2019), p. 1-6 ISSN: 1729-8806 DB: Scopus [WOS:000456389700001]
- 25) 2019 [1] TANG, L. et al. Path Tracking of a Cable-Driven Snake Robot with a Two-Level Motion Planning Method In: IEEE/ASME Transactions on Mechatronics Vol. 24, no. 3 (2019), p. 935-946 ISSN: 1083-4435 DB: WOS [WOS:000472193600005]
- 26) 2019 [1] REN, Tao et al. Driving mechanisms, motion, and mechanics of screw drive in-pipe robots: A review In: Applied Sciences Vol. 9, no. 12 (2019), p. 1-14 ISSN: 2076-3417 DB: WOS [WOS:000473754800123]
- 27) 2019 [3] YU, Leijian et al. Inspection robots in oil and gas industry: a review of current solutions and future trends In: ICAC 2019 : 25th International Conference on Automation and Computing : Lancaster, 05-07 September, 2019 P. 1-7 ISBN: 978-1-86137-666-4 [WOS:000568623100030]
- 28) 2019 [1] YU, L. et al. Inspection Robots in Oil and Gas Industry: a Review of Current Solutions and Future Trends In: ICAC 2019 : Proceedings of the 25th International Conference on Automation Computing : Lancaster, United Kingdom : 5-7 September 2019 ISBN: 978-186137666-4 DB: Scopus
- 29) 2019 [1] TANG, Z.J. et al. Design and simulation of artificial fish lateral line In: International Journal of Advanced Robotic Systems Vol. 16, no. 1 (2019) ISSN: 1729-8814 DB: WOS
- 30) 2019 [1] ITO, Fumio et al. Development of a Peristaltic-Movement Duct-Cleaning Robot for Application to Actual Environment - Examination of Brush Type and Installation Method to Improve Cleaning Efficiency In: Journal of Robotics and Mechatronics Vol. 31, no. 6 (2019), p. 781-793 ISSN: 0915-3942 DB: WOS [WOS:000503995800006]
- 31) 2019 [1] ITO, F., KAWAGUCHI, T., KAMATA, M. et al.: Proposal of a Peristaltic Motion Type Duct Cleaning Robot for Traveling in a Flexible Pipe In: 2019 IEEE/RSJ INTERNATIONAL CONFERENCE ON INTELLIGENT ROBOTS AND SYSTEMS (IROS) : Macau (2019) p.6614-6621 ISBN:978-1-7281-4004-9 ISSN:2153-0858 [WOS:000544658405037]

- 32) 2020 [1] SAPIETOVÁ, A., ŠTALMACH, O., SAPIETA, M. Synthesis and sensitivity analysis of the crank-rocker mechanism In: IOP Conference Series : MMS 2019 : 24th Slovak-Polish International Scientific Conference on Machine Modelling and Simulations : Liptovsky Jan, 3-6 September, 2019 Vol. 776, no. 1 (2020), art. no. 012060 ISSN: 1757-8981 DB: Scopus
- 33) 2020 [3] LI, Guoyuan et al. Development of a vision-based target exploration system for snake-line robots in structured environments In: International Journal of Advanced Robotic Systems Vol. 17, no. 4 (2020), p. 1-11 ISSN: 1729-8814
- 34) 2020 [1] LI, Guoyuan, WALDUM, Hakon Bjerkgard, GRINDVIK, Marcus Olai et al.: Development of a vision-based target exploration system for snake-like robots in structured environments In: INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS vol.17, no.4 (2020) ISSN:1729-8814 Doi:10.1177/1729881420936141 [WOS:000549171000001]
- 35) 2020 [1] VIRGALA, Ivan, KELEMEN, Michal, BOZEK, Pavol et al.: Investigation of Snake Robot Locomotion Possibilities in a Pipe In: SYMMETRY-BASEL vol.12, no.6 (2020) eISSN:2073-8994 Doi:10.3390/sym12060939 [WOS:000550813800001]
- 36) 2020 [1] KELEMENOVA, Tatiana, DOVICA, Miroslav, BOZEK, Pavol et al.: Specific Problems in Measurement of Coefficient of Friction Using Variable Incidence Tribometer In: SYMMETRY-BASEL vol.12, no.8 (2020) eISSN:2073-8994 Doi:10.3390/sym12081235 [WOS:000567342300001]
- 37) 2020 [1] CLASSENS, K. H. J., KOOPAEE, M. A. J., PRETTY, C. et al.: Dynamical Modeling and Gait Optimization of a 2-D Modular Snake Robot in a Confined Space In: IFAC PAPERSONLINE vol.53, no.2 (2020) p.9754-9759 ISSN:2405-8963 Doi:10.1016/j.ifacol.2020.12.2648 [WOS:000652593100156]
- 38) 2021 [1] VIRGALA, Ivan, KELEMEN, Michal, PRADA, Erik et al.: A snake robot for locomotion in a pipe using trapezium-like travelling wave In: MECHANISM AND MACHINE THEORY vol.158, (2021) ISSN:0094-114X eISSN:1873-3999 Doi:10.1016/j.mechmachtheory.2020.104221 [WOS:000615930500008]
- 39) 2021 [1] SHEN, Donghua, ZHANG, Qi, WANG, Cunjin, WANG, Xingsong, TIAN, Mengqian: Design and Analysis of a Snake-Inspired Crawling Robot Driven by Alterable Angle Scales In: IEEE ROBOTICS AND AUTOMATION LETTERS vol.6, no.2 (2021) p.3744-3751 ISSN:2377-3766 Doi:10.1109/LRA.2021.3061379 [WOS:000637183700003]
- 40) 2021 [1] EAGLE-MALONE, Rebecca S.: Biomimicry outside the Classroom In: AMERICAN BIOLOGY TEACHER vol.83, no.2 (2021) p.120-124 ISSN:0002-7685 eISSN:1938-4211 Doi:10.1525/abt.2021.83.2.124 [WOS:000642096600009]
- 41) 2021 [1] LIU, Jindong, TONG, Yuchuang, LIU, Jinguo: Review of snake robots in constrained environments In: ROBOTICS AND AUTONOMOUS SYSTEMS vol.141, (2021) ISSN:0921-8890 eISSN:1872-793X Doi:10.1016/j.robot.2021.103785 [WOS:000649552900009]
- 42) 2021 [1] BADRAN, Marwan, KHAN, Md Raisuddin, TOHA, Siti Fauziah et al.: MULTI-OBJECTIVE OPTIMIZATION OF SNAKE ROBOT IN SERPENTINE LOCOMOTION In: IIUM ENGINEERING JOURNAL vol.22, no.2 (2021) p.364-383 ISSN:1511-788X eISSN:2289-7860 Doi:10.31436/iiumej.v22i2.1691 [WOS:000669665300029]
- 43) 2021 [1] WANG, Xiaolong, BILSKY, Matthew, BHATTACHARYA, Subhrajit: Search-based configuration planning and motion control algorithms for a snake-like robot performing load-intensive operations In: AUTONOMOUS ROBOTS vol.45, no.8 (2021) p.1047-1076 ISSN:0929-5593 eISSN:1573-7527 Doi:10.1007/s10514-021-10017-6 [WOS:000700212600001]

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- 45) 2022 [1] RICHTER, Florian, V. GAVRILOV, Peter, LAM, Hoi Man et al.: ARCSnake: Reconfigurable Snake-like Robot With Archimedean Screw Propulsion for Multidomain Mobility In: IEEE TRANSACTIONS ON ROBOTICS vol.38, no.2 (2022) p.797-809 ISSN:1552-3098 eISSN:1941-0468 Doi:10.1109/TRO.2021.3104968 [WOS:000732234200001]

ADC003 [180108] **A geometric approach to modeling of four- and five-link planar snake-like robot** / Tomáš Lipták ... [et al.] - 2016.In: International Journal of Advanced Robotic Systems. Vol. 13, no. 5 (2016), p. 1-9. - ISSN 1729-8814
Spôsob prístupu: <http://journals.sagepub.com/doi/abs/10.1177/1729881416663714>.
[LIPTÁK, Tomáš (33%) - VIRGALA, Ivan (20%) - FRANKOVSKÝ, Peter (20%) - ŠARGA, Patrik (20%) - GMITERKO, Alexander (5%) - BALOČKOVÁ, Lenka (2%)]

Ohlasy:

- 46) 2017 [4] KURYŁO, Piotr Shape Memory Alloy Actuators In: Acta Mechatronica Roč. 2, č. 4 (2017), s. 1-4 ISSN: 2453-7306
- 47) 2018 [1] PIVARCIOVA, Elena - KARRACH, Ladislav - TUCKOVA, Zuzana Optimization of manipulation logistics using data matrix codes In: Advances in Science and Technology Vol. 12, no. 3 (2018), p. 173-180 ISSN: 2299-8624 DB: WOS [WOS:000451866500021]
- 48) 2018 [1] VIRGALA, Ivan, MIKOVA, Lubica, LIPTAK, Tomas et al.: Design of reconfigurable robot In: 12TH INTERNATIONAL CONFERENCE ELEKTRO 2018 : Mikulov (2018) ISBN:978-1-5386-4759-2 [WOS:000468327400133]
- 49) 2019 [1] TANG, Zhijie et al. Design and simulation of artificial fish lateral line In: International Journal of Advanced Robotic Systems Vol. 16, no. 1 (2019), article no. 1729881418824826 ISSN: 1729-8814 DB: WOS [WOS:000456389700001]
- 50) 2020 [1] KELEMENOVA, Tatiana, DOVICA, Miroslav, BOZEK, Pavol et al.: Specific Problems in Measurement of Coefficient of Friction Using Variable Incidence Tribometer In: SYMMETRY-BASEL vol.12, no.8 (2020) eISSN:2073-8994 Doi:10.3390/sym12081235 [WOS:000567342300001]
- 51) 2020 [1] VIRGALA, Ivan, KELEMEN, Michal, BOZEK, Pavol et al.: Investigation of Snake Robot Locomotion Possibilities in a Pipe In: SYMMETRY-BASEL vol.12, no.6 (2020) eISSN:2073-8994 Doi:10.3390/sym12060939 [WOS:000550813800001]
- 52) 2020 [1] VIRGALA, Ivan, MIKOVA, Lubica, KELEMENOVA, Tatiana, KELEMEN, Michal et al.: RECONFIGURABLE WHEEL-LEGGED ROBOT In: MM SCIENCE JOURNAL vol.2020, (2020) p.3960-3965 ISSN:1803-1269 eISSN:1805-0476 Doi:10.17973/MMSJ.2020_06_2020027 [WOS:000544190600016]
- 53) 2021 [1] SHAITOR, Nikolay, KELEMEN, Michal, YAKIMOVICH, Boris: Analysis and Synthesis in the Design of Magnetic Switching Electric Machines In: ACTUATORS vol.10, no.7 (2021) eISSN:2076-0825 Doi:10.3390/act10070164 [WOS:000678135100001]
- 54) 2021 [1] LIU, Jindong, TONG, Yuchuang, LIU, Jinguo: Review of snake robots in constrained environments In: ROBOTICS AND AUTONOMOUS SYSTEMS vol.141, (2021) ISSN:0921-8890 eISSN:1872-793X Doi:10.1016/j.robot.2021.103785 [WOS:000649552900009]

- 55) 2021 [1] VIRGALA, Ivan, KELEMEN, Michal, PRADA, Erik et al.: A snake robot for locomotion in a pipe using trapezium-like travelling wave In: MECHANISM AND MACHINE THEORY vol.158, (2021) ISSN:0094-114X eISSN:1873-3999 Doi:10.1016/j.mechmachtheory.2020.104221 [WOS:000615930500008]

ADC004 [191838] **Modeling and control of two-link snake** / Tomáš Lipták ... [et al.] - 2018.In: International Journal of Advanced Robotic Systems. Vol. 15, no. 2 (2018), p. 1-13. - ISSN 1729-8814 Spôsob prístupu: <http://journals.sagepub.com/doi/pdf/10.1177/1729881418760638>.
[LIPTÁK, Tomáš (20%) - VIRGALA, Ivan (10%) - MIKOVÁ, Ľubica (20%) - GALAJDOVÁ, Alena (20%) - TULEJA, Peter (3%) - KOUKOLOVÁ, Lucia (3%) - VARGA, Jozef (4%) - SUKOP, Marek (20%)]

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- 56) 2018 [4] KURYLO, Piotr Experimental Stand for Actuator Testing In: Acta Mechatronica Roč. 3, č. 2 (2018), s. 7-10 ISSN: 2453-7306
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Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

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Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

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Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

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Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

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[SUKOP, Marek (20%) - HAJDUK, Mikuláš (5%) - SEMJON, Ján (20%) - VARGA, Jozef (20%) - JÁNOŠ, Rudolf (20%) - VAGAŠ, Marek (5%) - BEZÁK, Martin (1%) - VIRGALA, Ivan (9%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

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[VIRGALA, Ivan (16%) - MIKOVÁ, Ľubica (16%) - KELEMENOVÁ, Tatiana (16%) - KELEMEN, Michal (16%) - PRADA, Erik (16%) - HRONCOVÁ, Darina (15%) - VARGA, Martin (5%)]

Kvartil: WOS:Q0,SCO:Q3 | Impakt faktor: neuvedené
Databázy: WOS: áno CCC: nie SCOPUS: áno

Ohlasy:

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ADN - Vedecké práce v domácich časopisoch registrovaných v databázach Web of Science alebo SCOPUS (2)

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[VIRGALA, Ivan (50%) - LIPTÁK, Tomáš (1%) - MIKOVÁ, Ľubica (49%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

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AEC003 [149328] **Inverse Kinematic Model of Humanoid Robot Hand** / Ivan Virgala ... [et al.] - 2014. In: Applied Mechanics and Materials : Applied Mechanics and Mechatronics. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 75-82. - ISBN 978-3-03835-189-4 - ISSN 1660-9336

[VIRGALA, Ivan (25%) - GMITERKO, Alexander (25%) - KELEMEN, Michal (25%) - MIKOVÁ, Ľubica (24%) - VARGA, Martin (1%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 398) 2019 [1] MO, An - ZHANG, Wenzeng A novel universal gripper based on meshed pin array In: International Journal of Advanced Robotic Systems Vol. 15, no. 2 (2019), art. no. 1729881419834781 ISSN: 1729-8814 DB: WOS

AEC004 [149329] **Snake Robot Movement in the Pipe Using Concertina Locomotion** / Ivan Virgala ... [et al.] - 2014. In: Applied Mechanics and Materials : Applied Mechanics and Mechatronics. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 121-129. - ISBN 978-3-03835-189-4 - ISSN 1660-9336

[VIRGALA, Ivan (25%) - DOVICA, Miroslav (25%) - KELEMEN, Michal (25%) - PRADA, Erik (24%) - BOBOVSKÝ, Zdenko (1%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 399) 2015 [3] HARGAŠ, Libor et al. Regular Shapes Detection for Analysis of Biomedical Image Sequences In: Applied Electronics : international conference : Pilsen, 8-9 September 2015 P. 49-52 ISBN: 978-80-261-0385-1

- 400) 2016 [1] HARGAŠ, L. et al. Artefacts detection for video sequences analysis In: ELEKTRO 2016 : 11th International Conference, Proceedings : High Tatras, 16-18 May, 2016 P. 514-517 ISBN: 978-146738698-2

401) 2018 [1] ABDEL-AAL, Hisham A. Surface structure and tribology of legless squamate reptiles In: Journal of the Mechanical Behavior of Biomedical Materials Vol. 79 (2018), p. 354-398 ISSN: 1751-6161 DB: WOS AEC007 [149687] **Puck collecting robot** / Michal Kelemen ... [et al.] - 2014.In: Applied Mechanics and Materials : Applied Mechanics and Mechatronics. - Switzerland : TTP, 2014 Vol. 611 (2014), p. 256-264. - ISBN 978-3-03835-189-4 - ISSN 1660-9336

[KELEMEN, Michal (19%) - SALOVKA, Tomáš (1%) - KELEMENOVÁ, Tatiana (20%) - VIRGALA, Ivan (20%) - MIKOVÁ, Ľubica (20%) - MAXIM, Vladislav (5%) - DUCHOŇ, František (10%) - KURYŁO, Piotr (5%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

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AEC009 [164179] **Embedded systems via using microcontroller** / Michal Kelemen ... [et al.] - 2015.In: Applied Mechanics and Materials volume 816 : Applied Mechanics and Mechatronics 2. - Zurich : TTP, 2015 P. 248-254. - ISBN 978-3-03835-602-8 - ISSN 1660-9336

[KELEMEN, Michal (6%) - PRADA, Erik (2%) - KELEMENOVÁ, Tatiana (40%) - MIKOVÁ, Ľubica (25%) - VIRGALA, Ivan (25%) - LIPTÁK, Tomáš (2%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

403) 2017 [4] KURYŁO, Piotr Shape Memory Alloy Actuators In: Acta Mechatronica Roč. 2, č. 4 (2017), s. 1-4 ISSN: 2453-7306

404) 2018 [4] KURYŁO, Piotr Experimental stand for actuator testing In: Acta Mechatronica Roč. 3, č. 2 (2018), s. 7-10 ISSN: 2453-7306

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AEC011 [164181] **Anisotropic friction difference principle of in-pipe machine** / Tatiana Kelemenová ... [et al.] - 2015.In: Applied Mechanics and Materials volume 816 : Applied Mechanics and Mechatronics 2. - Zurich : TTP, 2015 P. 306-312. - ISBN 978-3-03835-602-8 - ISSN 1660-9336

[KELEMENOVÁ, Tatiana (33%) - KELEMEN, Michal (9%) - VIRGALA, Ivan (25%) - MIKOVÁ, Ľubica (25%) - PRADA, Erik (1%) - GMITERKO, Alexander (5%) - LIPTÁK, Tomáš (2%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

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- 408) 2018 [4] PAPACZ, Władysław Didactic Models of Manipulators In: Acta Mechatronica Roč. 3, č. 3 (2018), s. 7-11 ISSN: 2453-7306

AFA - Publikované pozvané príspevky na zahraničných vedeckých konferenciách (2)

AFA001 [135097] **In-pipe robot locomotion analysis** / Ivan Virgala, Peter Frankovský - 2013. In: Quaere 2013 : interdisciplinárna konferencia doktorandů a odborných asistentů : mezinárodní vědecká konference : recenzovaný sborník příspěvků : vol. 3 : 20. - 24. května 2013, Hradec Králové. - Hradec Králové : Magnanimitas, 2013 P. 2603-2610. - ISBN 978-80-905243-7-8

[VIRGALA, Ivan (50%) - FRANKOVSKÝ, Peter (50%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

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AFC - Publikované príspevky na zahraničných vedeckých konferenciách (15)

AFC001 [107027] **Simplified model of the snake rectilinear motion** / A. Gmitterko, I. Virgala - 2011. - 1 elektronický optický disk (CD-ROM). In: SAMI 2011 : 9th IEEE International Symposium on Applied Machine Intelligence and Informatics : proceedings : 27 - 29 January 2011, Smolenice, Slovakia. - Budapest : IEEE, 2011 P. 307-310. - ISBN 978-1-4244-7428-8

[GMITERKO, Alexander (50%) - VIRGALA, Ivan (50%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

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- 412) 2019 [3] FACHÉ, Alexander et al. Marsupially-Aided Robotic Snake Exploration and Navigation of Cluttered Environments In: Proceedings of The National Conference On Undergraduate Research : NCUR 2019 : Kennesaw, Georgia : April 11-13, 2019 P. 1-11

AFC006 [164472] **New approach of fixation possibilities investigation for snake robot in the pipe** / Erik Prada ... [et al.] - 2015. In: IEEE ICMA 2015. - Danvers : IEEE, 2015 P. 1204-1210. - ISBN 978-1-4799-7096-4
[PRADA, Erik (2%) - VALÁŠEK, Michael (2%) - VIRGALA, Ivan (25%) - GMITERKO, Alexander (23%) - KELEMEN, Michal (23%) - HAGARA, Martin (23%) - LIPTÁK, Tomáš (2%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 413) 2017 [1] MILLS, G.H., JACKSON, A.E., RICHARDSON, R.C. Advances in the Inspection of Unpiggable Pipelines In: Robotics Vol. 6, no. 4 (2017), p. 1-13 ISSN: 2218-6581 DB: Scopus
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- 415) 2019 [1] ITO, Fumio et al. Development of a Peristaltic-Movement Duct-Cleaning Robot for Application to Actual Environment - Examination of Brush Type and Installation Method to Improve Cleaning Efficiency In: Journal of Robotics and Mechatronics Vol. 31, no. 6 (2019), p. 781-793 ISSN: 0915-3942 DB: WOS [WOS:000503995800006]
- 416) 2020 [1] VIRGALA, Ivan, KELEMEN, Michal, BOZEK, Pavol et al.: Investigation of Snake Robot Locomotion Possibilities in a Pipe In: SYMMETRY-BASEL vol.12, no.6 (2020) eISSN:2073-8994 Doi:10.3390/sym12060939 [WOS:000550813800001]
- 417) 2020 [1] PRADA, Erik, KELEMEN, Michal, GMITERKO, Alexander et al.: Locomotive, principally kinematic system of snake-like robot mathematical model with variable segment length In: PROCEEDINGS OF THE 2020 19TH INTERNATIONAL CONFERENCE ON MECHATRONICS - MECHATRONIKA (ME) (2020) p.322-327 ISBN:978-1-7281-5602-6 [WOS:000662155700058]
- 418) 2021 [1] VIRGALA, Ivan, KELEMEN, Michal, PRADA, Erik et al.: A snake robot for locomotion in a pipe using trapezium-like travelling wave In: MECHANISM AND MACHINE THEORY vol.158, (2021) ISSN:0094-114X eISSN:1873-3999 Doi:10.1016/j.mechmachtheory.2020.104221 [WOS:000615930500008]
- 419) 2021 [1] ZIVCAK, Jozef, KELEMEN, Michal, VIRGALA, Ivan et al.: An Adaptive Neuro-Fuzzy Control of Pneumatic Mechanical Ventilator In: ACTUATORS vol.10, no.3 (2021) eISSN:2076-0825 Doi:10.3390/act10030051 [WOS:000633173200001]
- 420) 2022 [1] UCHIYAMA, Kosuke, SATO, Hiroto, ITO, Fumio et al.: Residual Water Removal Mechanism for Obtaining Clear Images with Sewer Pipe Inspection Robot In: ROBOTICS FOR SUSTAINABLE FUTURE, CLAWAR 2021 vol.324, (2022) p.143-153 ISBN:978-3-030-86294-7 ISSN:2367-3370 eISSN:2367-3389 Doi:10.1007/978-3-030-86294-7_13 [WOS:000771275000013]

AFC008 [189968] **Educational Model of Line Follower Robot LINA 2010** / Michal Kelemen ... [et al.] - 2015. In: Solid State Phenomena : Mechatronics Systems and Materials. Vol. 220-221 (2015), p. 989-994. - ISSN 1662-9779 Spôsob prístupu:

https://www.scopus.com/results/results.uri?numberOfFields=0&src=s&clickedLink=&edit=&editSaveSearch=&origin=searchbasic&authorTab=&affiliationTab=&advancedTab=&scint=1&menu=search&tablin=&searchterm1=Educational+Model+of+Line+Follower+Robot+LINA+2010&field1=TITLE_ABS_KEY&dateType=Publication Date Type&yearFrom=Before+1960&yearTo=Present&loadDate=7&documenttype=All&accessTypes=All&resetFormLink=&st.

[KELEMEN, Michal (24%) - COLVILLE, Daniel John (1%) - KELEMENOVÁ, Tatiana (25%) - VIRGALA, Ivan (25%) - MIKOVÁ, Ľubica (25%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 421) 2020 [1] BENDIMRAD, A., AMRANI, A.E, AMRANI, B.E. Design and implementation of line follower and obstacle detection robot In: International Journal of Power Electronics and Drive Systems Vol. 11, no. 1 (2020), p. 160-168 ISSN: 2088-8694 DB: Scopus

AFD - Publikované príspevky na domácich vedeckých konferenciách (29)

AFD005 [109028] **Robot designed on biomechanics principles of the human locomotion** / Ivan Virgala, Martina Vacková, Michal Kelemen - 2010. - 1 elektronický optický disk (CD-ROM).In: YBERC 2010 : Young Biomedical Engineers and Researchers Conference : Košice : 1. - 3.7. 2010. - Košice : TU, 2010 S. 1-4. - ISBN 978-80-553-0596-7 [VIRGALA, Ivan (34%) - VACKOVÁ, Martina (33%) - KELEMEN, Michal (33%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 422) 2013 [3] SPIELMANN, Róbert et al. Sensor module for mobile robot In: American Journal of Mechanical Engineering Vol. 1, no. 7 (2013), p. 378-383 ISSN: 2328-4102

AFD006 [111170] **Modeling of a snake-like robot rectilinear motion and requirements for its actuators** / A. Gmitterko ... [et al.] - 2011. - 1 elektronický optický disk (CD-ROM).In: INES 2011 : 15th IEEE International Conference on Intelligent Engineering Systems : proceedings : June 23-25, 2011, Poprad, High Tatras, Slovakia. - Budapest : IEEE, 2011 S. 91-94. - ISBN 978-1-4244-8955-8

[GMITERKO, Alexander (20%) - KELEMEN, Michal (20%) - VIRGALA, Ivan (20%) - SUROVEC, Róbert (20%) - VACKOVÁ, Martina (20%)]

Kvartil: neuvedené | Impakt faktor: neuvedené

Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 423) 2013 [1] DALTORIO, Kathryn A. et al. Efficient worm-like locomotion: slip and control of soft-bodied peristaltic robots In: Bioinspiration Biomimetics Vol. 8, no. 3 (2013), p. 1-23 ISSN: 1748-3182 DB: WOS
- 424) 2016 [1] KONIAR, D. et al. Laboratory animals tracking in videosequences In: ELEKTRO 2016 : 11th International Conference : Strbske Pleso, 16-18 May, 2016 P. 537-542 ISBN: 978-146738698-2 DB: Scopus
- 425) 2016 [1] KONIAR, Dusan et al. Machine vision application in animal trajectory tracking In: COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE Vol. 127 (2016), p. 258-272 ISSN: 0169-2607 DB: WOS
- 426) 2015 [3] RAJASHEKHAR, V.S., SWAGAT, Kumar Design of a snake robot to exhibit rectilinear motion on floor and inside pipes In: INACOMM 2015 : 2nd International and 17th national conference on machines and mechanisms : Kanpur, 16-19 December, 2015 P. 1-9

- 427) 2017 [3] KONIAR, Dušan et al. Usage of video analysis for tracking of laboratory animals In: Acta technica corviniensis - bulletin of engineering Vol. 10, no. 2 (2017), s. 147-152 ISSN: 2067-3809
- 428) 2017 [3] LONCOVA, Zuzana et al. Interdisciplinary research in field of biomedical image processing In: Systemics, Cybernetics and Informatics Vol. 15, no. 1 (2017), p. 53-57 ISSN: 1690-4524
- 429) 2018 [1] BULEJ, V. et al. Development of a Simulation Platform for Robots with Serial and Parallel Kinematic Structure In: ISPEM 2018 : Intelligent Systems in Production Engineering and Maintenance : 2nd international conference : Wroclav, Poland, 17-18 September 2018 P. 452-461 ISBN: 978-3-319-97490-3 DB: Scopus
- 430) 2019 [1] LI, P. et al. Design and Modeling an Elongatable Robotic Snake towards Augmented Serpentine Gait In: ICARM 2019 : 4th International Conference on Advanced Robotics and Mechatronics : Osaka 3-5 July 2019 P. 756-762 ISBN: 978-172810064-7 DB: Scopus
- 431) 2020 [1] KANDHARI, Akhil et al. An Analysis of Peristaltic Locomotion for Maximizing Velocity or Minimizing Cost of Transport of Earthworm-Like Robots In: Soft Robotics DOI: 10.1089/soro.2020.0021 (2020) ISSN: 2169-5172 DB: WOS

AFD008 [113485] **Snake-like robot rectilinear motion modeling with different kinds of friction models** / Alexander Gmiterko, Ivan Virgala, Erik Prada - 2011. - 1 elektronický optický disk (CD-ROM).In: MAMMS 2011 : Modelling of Mechanical and Mechatronical Systems : proceedings of the 4th international conference : Herľany, Slovakia, 20. - 22. 9. 2011. - Košice : Sjf TU, 2011 S. 133-141. - ISBN 978-80-553-0731-2 [GMITERKO, Alexander (34%) - VIRGALA, Ivan (33%) - PRADA, Erik (33%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 432) 2014 [1] ŠARLOŠI, J. et al. Early-stage design of robotic manipulator using dual visual perception In: Applied Mechanics and Materials Vol. 611 (2014), p. 316-324 ISSN: 1660-9336 DB: Scopus

AFD010 [113487] **Approaches for snake-like robots design** / Ivan Virgala - 2011. - 1 elektronický optický disk (CD-ROM).In: MAMMS 2011 : Modelling of Mechanical and Mechatronical Systems : proceedings of the 4th international conference : Herľany, Slovakia, 20. - 22. 9. 2011. - Košice : Sjf TU, 2011 S. 542-550. - ISBN 978-80-553-0731-2 [VIRGALA, Ivan (100%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 433) 2012 [3] FERDINANDO, Hany, KHOSWANTO, Handry, EKA PUTRA, Daniel Design and Implementation of Nine-segment Wheel-less Snake Robot for Planar Terrain In: IES 2012 : The 14th Industrial Electronics Seminar : Indonesia, October 24, 2012 P. 7-11 ISBN: 978-602-9494-28-0
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AFD012 [116736] **Using of bond graph for mechatronics systems** / Alexander Gmitterko, Martina Vacková, Ivan Virgala - 2011. In: ISSE 2011 : 34th International Spring Seminar on Electronics Technology "New Trends in Micro/Nanotechnology" : May 11 - 15, 2011, High Tatras, Slovakia. - Piscataway : IEEE, 2011 S. 369-373. - ISBN 978-1-4577-2112-0 Spôsob prístupu: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6053890>. [GMITERKO, Alexander (33%) - VACKOVÁ, Martina (34%) - VIRGALA, Ivan (33%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

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AFD013 [120126] **Intelligent In-pipe Machine Adjustable to Inner Pipe Diameter** / M. Vacková ... [et al.] - 2012. - 1 elektronický optický disk (CD-ROM). In: SAMI 2012 : 10th IEEE Jubilee International Symposium on Applied Machine Intelligence and Informatics : proceedings : Herľany, Slovakia, January 26-28, 2012. - Budapest : IEEE, 2011 S. 507-513. - ISBN 978-1-4577-0195-5 [VACKOVÁ, Martina (12%) - TREBUŇA, František (13%) - VIRGALA, Ivan (12%) - KELEMEN, Michal (13%) - KELEMENOVÁ, Tatiana (13%) - PRADA, Erik (12%) - SUROVEC, Róbert (12%) - MIKOVÁ, Ľubica (13%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 436) 2013 [3] JEZŇÝ, Jaromír, ČURILLA, Miloslav Position Measurement with Hall Effect Sensors In: American Journal of Mechanical Engineering Vol. 1, no. 7 (2013), p. 231-235 ISSN: 2328-4102
- 437) 2015 [1] HARGAŠ, L. et al. Regular shapes detection for analysis of biomedical image sequences In: AE 2015 : 20th International Conference on Applied Electronics : 8-9 September, 2015 P. 49-52 ISSN: 18037232 ISBN: 978-802610385-1 DB: Scopus
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AFD014 [120760] **Algorithm for determining static characteristic on electromagnetic actuator for rectilinear locomotion structure of a snake-like robot** / Erik Prada ... [et al.] - 2012. - 1 elektronický optický disk (CD-ROM). In: SAMI 2012 : 10th IEEE Jubilee International Symposium on Applied Machine Intelligence and Informatics : proceedings : Herľany, Slovakia, January 26-28, 2012. - Budapest : IEEE, 2012 S. 435-439. - ISBN 978-1-4577-0195-5 [PRADA, Erik (13%) - GMITERKO, Alexander (17%) - BOCKO, Jozef (17%) - KELEMEN, Michal (16%) - SUROVEC, Róbert (12%) - VIRGALA, Ivan (13%) - VACKOVÁ, Martina (12%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 439) 2013 [3] JEZŇÝ, Jaromír, ČURILLA, Miloslav Position Measurement with Hall Effect Sensors In: American Journal of Mechanical Engineering Vol. 1, no. 7 (2013), p. 231-235 ISSN: 2328-4102

AFD015 [120780] **Kinematic analysis of snake-like robot using obstacle aided locomotion** / Róbert Surovec ... [et al.] - 2012. - 1 elektronický optický disk (CD-ROM).In: SAMI 2012 : 10th IEEE Jubilee International Symposium on Applied Machine Intelligence and Informatics : proceedings : Herľany, Slovakia, January 26-28, 2012. - Budapest : IEEE, 2012 S. 451-455. - ISBN 978-1-4577-0195-5
[SUROVEC, Róbert (10%) - GMITERKO, Alexander (17%) - KELEMEN, Michal (17%) - ŠIMČÁK, František (16%) - FODOR, Marek (10%) - VIRGALA, Ivan (10%) - PRADA, Erik (10%) - VACKOVÁ, Martina (10%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 440) 2013 [2] VOJTKO, I. et al. The New Design of Robot Arm In: SAMI 2013 - IEEE 11th International Symposium on Applied Machine Intelligence and Informatics, Proceedings : 31 January - 2 February 2013, Herľany, Slovakia P. 53-56 ISBN: 978-146735929-0

AFD016 [127294] **Manipulator end-effector position control** / Ivan Virgala ... [et al.] - 2012.In: Procedia Engineering : MMaMS 2012 : Modelling of Mechanical and Mechatronics Systems 2012 : November 6th-8th 2012, Zemplínska Šírava, Slovakia. - Košice : TU, 2012 Vol. 48 (2012), p. 684-692. - ISSN 1877-7058 Spôsob prístupu: <http://www.sciencedirect.com/science/journal/18777058/48>.
[VIRGALA, Ivan (30%) - GMITERKO, Alexander (20%) - SUROVEC, Róbert (20%) - VACKOVÁ, Martina (1%) - PRADA, Erik (20%) - KENDEROVÁ, Mária (9%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

- 441) 2016 [1] WU, Jing, SONG, Yuntao, HAN, Yu et al.: Extended Kalman Filter Estimator with Curve Fitting Calibration of EAST Articulated Maintenance Arm Position Disturbance Compensation In: 2016 IEEE INTERNATIONAL CONFERENCE ON ELECTRONIC INFORMATION AND COMMUNICATION TECHNOLOGY ICEICT 2016 PROCEEDINGS : Harbin (2016) p.379-383 ISBN:978-1-5090-0729-5 [WOS:000405568400080]
- 442) 2021 [1] ONDOCKO, Stefan, SVETLIK, Jozef, SASALA, Michal et al.: Inverse Kinematics Data Adaptation to Non-Standard Modular Robotic Arm Consisting of Unique Rotational Modules In: APPLIED SCIENCES-BASEL vol.11, no.3 (2021) eISSN:2076-3417 Doi:10.3390/app11031203 [WOS:000615005700001]
- 443) 2022 [1] KELEMEN, Michal, KELEMENOVA, Tatiana, VIRGALA, Ivan et al.: ROBOTIC GRIPPER ACTUATED USING THE SHAPE MEMORY ALLOY ACTUATORS In: MM SCIENCE JOURNAL vol.2022, (2022) p.5539-5545 ISSN:1803-1269 eISSN:1805-0476 Doi:10.17973/MMSJ.2022_03_2022015 [WOS:000767352900001]

AFD018 [127304] **Design of robot vehicle undercarriage with ability to operate in broken terrain** / Róbert Surovec ... [et al.] - 2012. In: *Procedia Engineering : MMaMS 2012 : Modelling of Mechanical and Mechatronics Systems 2012* : November 6th-8th 2012, Zemplínska Šírava, Slovakia. - Košice : TU, 2012 Vol. 48 (2012), p. 650-655. - ISSN 1877-7058 Spôsob prístupu: <http://www.sciencedirect.com/science/journal/18777058/48/supp/C>.
[SUROVEC, Róbert (19%) - GMITERKO, Alexander (30%) - VACKOVÁ, Martina (1%) - VIRGALA, Ivan (30%) - PRADA, Erik (19%) - PIPÍK, Tomáš (1%)]

Kvartil: neuvedené | Impakt faktor: neuvedené
Databázy: WOS: nie CCC: nie SCOPUS: nie

Ohlasy:

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[VIRGALA, Ivan (80%) - KELEMEN, Michal (10%) - PRADA, Erik (5%) - SUROVEC, Róbert (5%)]

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[VIRGALA, Ivan (45%) - KELEMEN, Michal (45%) - VARGA, Martin (5%) - KURYŁO, Piotr (5%)]

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Databázy: WOS: nie CCC: nie SCOPUS: nie

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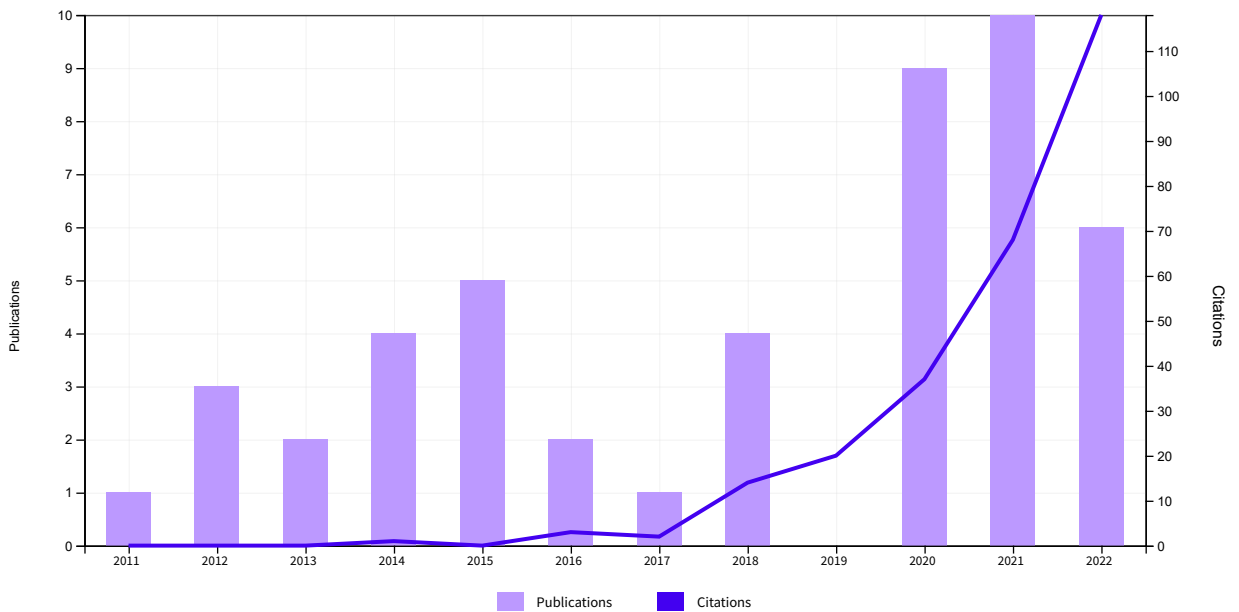
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| | 2018 | 2019 | 2020 | 2021 | 2022 | |
| Total | 14 | 20 | 37 | 68 | 118 | 29.33 |
| 1 A Novel Approach for a Inverse Kinematics Solution of a Redundant Manipulator Kelemen, M; Virgala, I; (...); Bulej, V Nov 2018 APPLIED SCIENCES-BASEL 8 (11) | 0 | 4 | 8 | 12 | 10 | 6.8 |



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|----|--|---|---|---|---|----|------|
| 2 | <p>Case study: Performance analysis and development of robotized screwing application with integrated vision sensing system for automotive industry</p> <p>Saga, M; Bulej, V; (...); Eberth, M</p> <p>May 2020 INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS 17 (3)</p> | 0 | 0 | 2 | 7 | 16 | 8.33 |
| 3 | <p>An inspection of pipe by snake robot</p> <p>Trebuna, F; Virgala, J; (...); Mikova, L</p> <p>Oct 13 2016 INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS 13</p> | 3 | 6 | 4 | 8 | 3 | 3.43 |
| 4 | <p>APPLICATION OF SHAPE MEMORY ALLOY (SMA) AS ACTUATOR</p> <p>Mikova, E; Medvecká-Benova, S; (...); Virgala, J</p> <p>Jan-mar 2015 METALURGIJA 54 (1), pp.169-172</p> | 1 | 3 | 5 | 5 | 4 | 2.25 |
| 5 | <p>A snake robot for locomotion in a pipe using trapezium-like travelling wave</p> <p>Virgala, J; Kelemen, M; (...); Ferencik, P</p> <p>Apr 2021 MECHANISM AND MACHINE THEORY 158</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 6 | 8 | 7 |
| 6 | <p>Investigation of Snake Robot Locomotion Possibilities in a Pipe</p> <p>Virgala, J; Kelemen, M; (...); Varga, M</p> <p>Jun 2020 SYMMETRY-BASEL 12 (6)</p> | 0 | 0 | 1 | 4 | 9 | 4.67 |
| 7 | <p>Improved Pose Estimation of Aruco Tags Using a Novel 3D Placement Strategy</p> <p>Oscadal, P; Heczko, D; (...); Bobovsky, Z</p> <p>Sep 2020 SENSORS 20 (17)</p> <p> Enriched Cited References</p> | 0 | 0 | 2 | 2 | 7 | 4 |
| 8 | <p>A geometric approach to modeling of four- and five-link planar snake-like robot</p> <p>Liptak, T; Virgala, J; (...); Balockova, L</p> <p>Oct 12 2016 INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS 13</p> | 2 | 1 | 3 | 3 | 3 | 1.71 |
| 9 | <p>Miniature Mobile Bristled In-Pipe Machine</p> <p>Ostertag, O; Ostertagova, E; (...); Virgala, J</p> <p>Dec 2 2014 INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS 11</p> | 1 | 0 | 3 | 2 | 5 | 1.33 |
| 10 | <p>Rapid Control Prototyping of Embedded Systems Based on Microcontroller</p> <p>Kelemen, M; Kelemenova, T; (...); Liptak, T</p> <p>6th Conference on Modelling of Mechanical and Mechatronic Systems (MMaMS) 2014 MODELLING OF MECHANICAL AND MECHATRONIC SYSTEMS 96, pp.215-220</p> | 2 | 1 | 0 | 1 | 6 | 1.22 |
| 11 | <p>Modeling and control of two-link snake</p> <p>Liptak, T; Virgala, J; (...); Sukop, M</p> | 0 | 0 | 1 | 2 | 5 | 1.6 |

| | | | | | | |
|---|---|---|---|---|---|------|
| <p>12 Analyzing, Modeling and Simulation of Humanoid Robot Hand Motion Virgala, J; Kelemen, M; (...); Kurylo, P 6th Conference on Modelling of Mechanical and Mechatronic Systems (MMaMS) 2014 MODELLING OF MECHANICAL AND MECHATRONICS SYSTEMS 96 , pp.489-499</p> | 2 | 1 | 2 | 1 | 2 | 0.89 |
| <p>13 Manipulator end-effector position control Virgala, J; Gmitterko, A; (...); Kenderova, M 5th International Conference on Modelling of Mechanical and Mechatronics Systems (MMaMS) 2012 MODELLING OF MECHANICAL AND MECHATRONICS SYSTEMS 48 , pp.684-692</p> | 0 | 0 | 0 | 1 | 5 | 0.64 |
| <p>14 New Approach of Fixation Possibilities Investigation for Snake Robot in the Pipe Prada, E; Valasek, M; (...); Liptak, T IEEE International Conference on Mechatronics & Automation 2015 2015 IEEE INTERNATIONAL CONFERENCE ON MECHATRONICS AND AUTOMATION , pp.1204-1210</p> | 0 | 2 | 2 | 1 | 1 | 0.75 |
| <p>15 Influence of pipe geometric deviation on bristled in-pipe mobile robot locomotion Galajdova, A; Virgala, J; (...); Kelemenova, T May 15 2018 INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS 15 (3)</p> | 0 | 0 | 1 | 3 | 1 | 1 |
| <p>16 Motion analysis of snake robot segment Virgala, J; Kelemen, M; (...); Surovec, R 11th IEEE International Symposium on Applied Machine Intelligence and Informatics (SAMI) 2013 IEEE 11TH INTERNATIONAL SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI 2013) , pp.145-148</p> | 1 | 0 | 2 | 1 | 0 | 0.5 |
| <p>17 Design of robot vehicle undercarriage with ability to operate in broken terrain Surovec, R; Gmitterko, A; (...); Pipik, T 5th International Conference on Modelling of Mechanical and Mechatronics Systems (MMaMS) 2012 MODELLING OF MECHANICAL AND MECHATRONICS SYSTEMS 48 , pp.650-655</p> | 2 | 1 | 0 | 0 | 1 | 0.45 |
| <p>18 A Non-Anthropomorphic Bipedal Walking Robot with a Vertically Stabilized Base Virgala, J; Mikova, L; (...); Tuleja, P May 2022 APPLIED SCIENCES-BASEL 12 (9)</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 0 | 4 | 4 |
| <p>19 Finding Optimal Manipulator Arm Shapes to Avoid Collisions in a Static Environment Kot, J; Bobovsky, Z; (...); Novak, P Jan 2021 APPLIED SCIENCES-BASEL 11 (1)</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 1 | 3 | 2 |
| | 0 | 0 | 0 | 0 | 4 | 18 |

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| <p>20</p> | <p>Specific Problems in Measurement of Coefficient of Friction Using Variable Incidence Tribometer</p> <p>Kelemenova, T; Dovica, M; (...); Kelemen, M</p> <p>Aug 2020 SYMMETRY-BASEL 12 (8)</p> | | | | | | |
| <p>21</p> | <p>RECONFIGURABLE WHEEL-LEGGED ROBOT</p> <p>Virgala, J; Mikova, L; (...); Varga, M</p> <p>Jun 2020 MM SCIENCE JOURNAL 2020 , pp.3960-3965</p> | 0 | 0 | 0 | 1 | 3 | 1.33 |
| <p>22</p> | <p>Motion control of nonholonomic robots at low speed</p> <p>Mikova, L; Gmiterko, A; (...); Varga, M</p> <p>Jan 2020 INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS 17 (1)</p> | 0 | 0 | 1 | 1 | 2 | 1.33 |
| <p>23</p> | <p>Using Virtual Scanning to Find Optimal Configuration of a 3D Scanner Turntable for Scanning of Mechanical Parts</p> <p>Kot, T; Bobovsky, Z; (...); Prada, E</p> <p>Aug 2021 SENSORS 21 (16)</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 0 | 3 | 1.5 |
| <p>24</p> | <p>Chimney Sweeping Robot Based on a Pneumatic Actuator</p> <p>Sincak, P; Virgala, J; (...); Kot, T</p> <p>Jun 2021 APPLIED SCIENCES-BASEL 11 (11)</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 1 | 2 | 1.5 |
| <p>25</p> | <p>Substantiation of Parameters of Friction Elements of Bernoulli Grippers With a Cylindrical Nozzle</p> <p>Mykhailyshyn, R; Savkiv, V; (...); Virgala, J</p> <p>Apr-jun 2021 INTERNATIONAL JOURNAL OF MANUFACTURING MATERIALS AND MECHANICAL ENGINEERING 11 (2) , pp.17-39</p> | 0 | 0 | 0 | 0 | 3 | 1.5 |
| <p>26</p> | <p>Design of a Unique Device for Residual Stresses Quantification by the Drilling Method Combining the PhotoStress and Digital Image Correlation</p> <p>Pastor, M; Hagara, M; (...); Hagarova, L</p> <p>Jan 2021 MATERIALS 14 (2)</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 2 | 1 | 1.5 |
| <p>27</p> | <p>Verification of the UR5 robot's properties after a crash caused by a fall of a transferred load from a crane</p> <p>Semjon, J; Janos, R; (...); Vagas, M</p> <p>Jan 2020 INTERNATIONAL JOURNAL OF ADVANCED ROBOTIC SYSTEMS 17 (1)</p> | 0 | 0 | 0 | 2 | 1 | 1 |
| <p>28</p> | <p>POWER AND FORCE LIMITING TECHNIQUE AT COLLABORATIVE WORKPLACE</p> <p>Virgala, J; Prada, E and Vagas, M</p> | 0 | 0 | 0 | 0 | 2 | 1 |

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| <p>29 An Adaptive Neuro-Fuzzy Control of Pneumatic Mechanical Ventilator Zivcak, J.; Kelemen, M; (...); Ligusova, J Mar 2021 ACTUATORS 10 (3)</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 0 | 2 | 1 |
| <p>30 EXPERIMENTAL VERIFICATION OF THE SHAPE MEMORY ALLOY (SMA) SPRING ACTUATOR FOR APPLICATION ON IN-PIPE MACHINE Kelemen, M; Virgala, J; (...); Liptak, I Jan-mar 2015 METALURGIJA 54 (1) , pp.173-176</p> | 0 | 0 | 0 | 1 | 1 | 0.25 |
| <p>31 Influence of biofuels on production of gaseous emission from diesel engine with regard to air quality Puskar, M; Markovic, J; (...); Jancosek, M Jun 2020 May 2020 (Early Access) AIR QUALITY ATMOSPHERE AND HEALTH 13 (6) , pp.763-772</p> | 0 | 0 | 0 | 0 | 1 | 0.33 |
| <p>32 INFLUENCE OF MATERIAL AND GEAR PARAMETERS ON THE SAFETY OF GEARING IN METALLURGICAL INDUSTRY Medveckaa-Benovaa, S; Virgala, J; (...); Mikovaa, L Jan-mar 2015 METALURGIJA 54 (1) , pp.224-226</p> | 0 | 1 | 0 | 0 | 0 | 0.13 |
| <p>33 Using of Bond Graph for Mechatronics Systems Gmiterko, A; Vackova, M and Virgala, J 34th International Spring Seminar on Electronics Technology (ISSE) 2011 2011 34TH INTERNATIONAL SPRING SEMINAR ON ELECTRONICS TECHNOLOGY (ISSE 2011) - NEW TRENDS IN MICRO/NANOTECHNOLOGY , pp.369-373</p> | 0 | 0 | 0 | 0 | 0 | 0.08 |
| <p>34 TWO-LEGGED ROBOT CONCEPTS Lestach, L; Kelemen, M; (...); Merva, TOMAS Oct 2022 MM SCIENCE JOURNAL 2022 , pp.5812-5818</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>35 BIPED ROBOT WITH UNCONVENTIONAL KINEMATICS Virgala, J; Kelemen, M; (...); Bobovsky, Z Oct 2022 MM SCIENCE JOURNAL 2022 , pp.5819-5824</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>36 ROBOTIC GRIPPER ACTUATED USING THE SHAPE MEMORY ALLOY ACTUATORS Kelemen, M; Kelemenova, T; (...); Janos, R Mar 2022 MM SCIENCE JOURNAL 2022 , pp.5539-5545</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>37 VERIFICATION OF THE TORQUE GAUGES Kelemenova, T; Kelemen, M; (...); Marcinko, P</p> | 0 | 0 | 0 | 0 | 0 | 0 |



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|--|---|---|---|---|---|---|
| <p>38 Heczko, D; Oscadal, P; (...); Bobovsky, Z Feb 2022 SENSORS 22 (4)</p> <p>Finding the Optimal Pose of 2D LLT Sensors to Improve Object Pose Estimation</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>39 Hroncova, D; Mikova, L; (...); Prada, E Oct 2021 MM SCIENCE JOURNAL 2021 , pp.4749-4756</p> <p>KINEMATICS OF TWO LINK MANIPULATOR IN MATLAB/SIMULINK AND MSC ADAMS/VIEW SOFTWARE</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>40 Zivcak, J; Kelemen, M; (...); Filakovsky, F 2021 19th IEEE World Symposium on Applied Machine Intelligence and Informatics (SAMI) 2021 2021 IEEE 19TH WORLD SYMPOSIUM ON APPLIED MACHINE INTELLIGENCE AND INFORMATICS (SAMI 2021) , pp.229-233</p> <p>A Portable BVM-based Emergency Mechanical Ventilator</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>41 Prada, E; Kelemen, M; (...); Sincak, P 2020 19th International Conference on Mechatronics - Mechatronika (ME) 2020 PROCEEDINGS OF THE 2020 19TH INTERNATIONAL CONFERENCE ON MECHATRONICS - MECHATRONIKA (ME) , pp.322-327</p> <p>Locomotive, principally kinematic system of snake-like robot mathematical model with variable segment length</p> <p> Enriched Cited References</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>42 Virgala, J; Mikova, L; (...); Sukop, M 2018 12TH INTERNATIONAL CONFERENCE ELEKTRO 2018</p> <p>Design of reconfigurable robot</p> | 0 | 0 | 0 | 0 | 0 | 0 |
| <p>43 Sukop, M; Hajduk, M; (...); Virgala, J Sep 2017 TEHNICKI VJESNIK-TECHNICAL GAZETTE 24 , pp.545-550</p> <p>TESTING OF ADHESIVE SPRAY PAINTING WITH ROBOT</p> | 0 | 0 | 0 | 0 | 0 | 0 |
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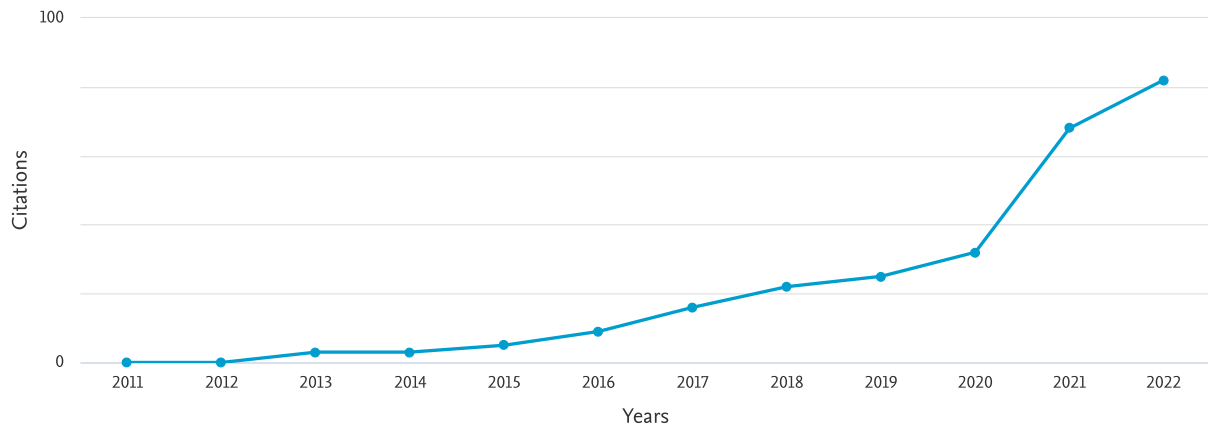
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