

Lista de lucrări

Şef de lucr.dr.ing. Sergiu-Dan Stan

a) Lista lucrărilor cele mai relevante pentru realizările profesionale proprii care sunt incluse în format electronic în dosar

1. S-D. Stan, "Workspace optimization of a two degree of freedom mini parallel robot," 2006 IEEE International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, 2006, pp. 278-283. doi: 10.1109/AQTR.2006.254645, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4022968&isnumber=4022907> (ISI Proceedings WOS:000241464000050) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=6&SID=F3nDFFyge9y99SaggKf&page=1&doc=1
2. Figliolini, G., Stan, S-D., Rea, P., Motion analysis of the leg tip of a six-legged walking robot, CD-Proceedings, 2th IFToMM World Congress, Besançon (France), June 18-21, 2007. <http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.120.2663&rep=rep1&type=pdf>
3. S-D Stan, M. Manic, V. Mătieş and R. Bălan, "Evolutionary approach to optimal design of 3 DOF translation exoskeleton and medical parallel robots," 2008 Conference on Human System Interactions, Krakow, 2008, pp. 720-725. doi: 10.1109/HSI.2008.4581530, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=4581530&isnumber=4581395> (ISI Proceedings WOS:000259867600132) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=12&SID=F3nDFFyge9y99SaggKf&page=1&doc=1
4. M. Bara, S-D. Stan, E. Teuţan, Dan Verdes, Design and virtual reality simulation of frontal - sinusoidal ball transmission. Journal of Mechanika, Vol 78, No 4, pp. 63-68, Print ISSN: 1392-1207, Online ISSN: 2029-6983, 2009. <http://mechanika.ktu.lt/index.php/Mech/article/view/15270/7863> (Revistă indexată ISI WOS:000269968700010) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=16&SID=F3nDFFyge9y99SaggKf&page=1&doc=1
5. N. R. Rat, M. Neagoe, D. Diaconescu and S. D. Stan, "Dynamic analysis of a Triglidge parallel robot," 2011 4th International Conference on Human System Interactions, HSI 2011, Yokohama, 2011, pp. 245-249. doi: 10.1109/HSI.2011.5937373, <https://ieeexplore.ieee.org/document/5937373>. (ISI Proceedings WOS:000392284600032) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=21&SID=F3nDFFyge9y99SaggKf&page=1&doc=1
6. N. R. Rat, M. Neagoe, D. Diaconescu, S. D. Stan, Dynamic simulations regarding the influence of the load-rigidity correlation on the working accuracy of a medical Triglidge parallel robot, Journal of Mechanika, <http://dx.doi.org/10.5755/j01.mech.17.2.336>, Vol 17, No 2, pp. 178-181, Print ISSN: 1392-1207, Online ISSN: 2029-6983, 2011. <http://mechanika.ktu.lt/index.php/Mech/article/view/336/772> (Revistă indexată ISI WOS:000290219700012) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=25&SID=F3nDFFyge9y99SaggKf&page=1&doc=1
7. Anne E. James ; Kuo-Ming Chao ; Weidong Li ; Adriana Matei ; Antonios G. Nanos ; S.-D. Stan et al., "An Ecosystem for E-Learning in Mechatronics: The CLEM Project," 2013 IEEE 10th International Conference on e-Business Engineering, Coventry, 2013, pp. 62-69., doi: 10.1109/ICEBE.2013.10, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6686243&isnumber=6586216> (ISI Proceedings WOS:000330341500010) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=F3nDFFyge9y99SaggKf&page=1&doc=10
8. Erwin-Christian Lovasz, Dan Teodor Mărgineanu, Valentin Ciupe, Inocenţiu Maniu, Corina Mihaela Gruescu, Eugen Sever Zăbavă, Sergiu Dan Stan, Design and control solutions for haptic elbow exoskeleton module used in space telerobotics, Journal of Mechanism and Machine Theory, Volume 107, 2017, Pages 384-398, ISSN 0094-114X,

<https://doi.org/10.1016/j.mechmachtheory.2016.08.004>.

<http://www.sciencedirect.com/science/article/pii/S0094114X16301689> (Revistă indexată ISI WOS:000390971900027)

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nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=25&SID=F3nDFFyge9y99SaggKf&page=1&doc=1

9. Kuo-Ming Chao, Anne E. James, Antonios G. Nanos, Jen-Hsiang Chen, Sergiu-Dan Stan, Ionut Muntean, Giorgio Figliolini, Pierluigi Rea, Chedli B. Bouzgarrou, Pavel Vitliemov, Joshua Cooper, Jürgen van Capelle, Cloud E-learning for Mechatronics: CLEM, Future Generation Computer Systems, Volume 48, 2015, Pages 46-59, ISSN 0167-739X,

<https://doi.org/10.1016/j.future.2014.10.033>. (<http://www.sciencedirect.com/science/article/pii/S0167739X14002271>)

(Revistă indexată ISI WOS:000353084000005) <http://apps.webofknowledge.com.am.e->

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b) Teza de doctorat

Autor: Ing. Sergiu-Dan Stan

Titlul tezei: Contribuții la optimizarea roboților paraleli

Conducător științific: Prof. dr. ing. Nicolae PLITEA

Universitatea Tehnică din Cluj-Napoca, Facultatea de Construcții de Mașini

Domeniul: Inginerie Mecanică, Anul susținerii: 2007.

c) Brevete de invenție și alte titluri de proprietate industrială

d) Cărți și capitole în cărți

1. Sergiu-Dan Stan, Optimizare cu algoritmi genetici – aplicații în mecatronică, Editura Toderescu, Cluj-Napoca, ISBN: 978-973-7695-38-3, 2007.

Suport de curs

2. Stan Sergiu-Dan, Programare avansată în MATLAB - suport de curs, Editura RISOPRINT, Cluj-Napoca, 2019, ISBN 978-973-53-2330-1.

3. Stan Sergiu-Dan, Programare în Simulink cu aplicații în mecatronică - suport de curs, Editura RISOPRINT, Cluj-Napoca, 2019, ISBN 978-973-53-2344-8.

Îndrumător de lucrări

4. Stan Sergiu-Dan - Programare avansată în Matlab - îndrumător de laborator, Editura RISOPRINT, Cluj-Napoca, 2018, ISBN 978-973-53-2303-5.

e) Articole/studii în extenso, publicate în reviste din fluxul științific internațional principal

1. Nandor Verba, Kuo-Ming Chao, Anne James, Daniel Goldsmith, Xiang Fei, Sergiu-Dan Stan, Platform as a service gateway for the Fog of Things, Advanced Engineering Informatics, Volume 33, 2017, Pages 243-257, ISSN 1474-0346, <https://doi.org/10.1016/j.aei.2016.11.003>.

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2. C. Szep, S.-D. Stan, V. Csibi, R. Bălan, Study of design, kinematics and accuracy modelling of 3 degrees of freedom robot, Journal of Mechanika, 2009. Nr.3(77), pp. 58-61. (Revistă indexată ISI WOS:000268003700009) http://apps.webofknowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=46&SID=F3nDFFyge9y99SaggKf&page=1&doc=1
3. B. Ranjbar-Sahraei, F. Shabaninia, A. Nemati and S. Stan, "A Novel Robust Decentralized Adaptive Fuzzy Control for Swarm Formation of Multiagent Systems," in IEEE Transactions on Industrial Electronics, vol. 59, no. 8, pp. 3124-3134, Aug. 2012. doi: 10.1109/TIE.2012.2183831 <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6129411&isnumber=6175217> (Revistă indexată ISI WOS:000302545700009) http://apps.webofknowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=54&SID=F3nDFFyge9y99SaggKf&page=2&doc=12&cacheurlFromRightClick=no
4. S.-D. Stan, R. Bălan, V. Mătieș, C. Rad, Kinematics and fuzzy control of ISOGLIDE3 medical parallel robot, Print ISSN: 1392-1207, Online ISSN: 2029-6983, Vol 75, No 1 (2009), pp. 62-66, (Revistă indexată ISI WOS:000264162500010, http://apps.webofknowledge.com.am.e-information.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=110&SID=F3nDFFyge9y99SaggKf&page=1&doc=1)

f) Publicații în extenso, apărute în lucrări ale principalelor conferințe internaționale de specialitate

1. O. Tătar, D. Măndru, S. Stan, The Kinematic Modeling of Wheeled Mini and Microrobots, "The Eight IFToMM International Symposium on Theory of Machines and Mechanisms" – SYROM 2001, Bucharest, Romania, p. 321-326, 2001.
2. E. Teușan, C. Vencel, S. Stan, Aspecte privind cinematica roboților modulari reconfigurabili – ORSZAGOS GEPESZ TALALKOZO - OGET'2002, Odorheiu Secuiesc, Romania, p. 245-248, 2002.
3. O. Tatar, V. Maties, D. Mandru, S. Stan, Inchworm microrobot, 2004, „Conferinta MTM 2004”, publicat in Acta Technica Napocensis, Applied Mathematics and Mechanics, 47, vol. II, 2004, pp. 589- 594, Cluj-Napoca, Romania, ISSN 1221-5872, 2004.
4. D. Pislă, S. Stan, New Approaches regarding the Modelling and Simulation of Parallel Robots, 2004, Proceedings of the 2-nd International Conference on Robotics „ROBOTICA - 2004”, pp. 151-152, Timisoara/Resita 14-16 Oct. 2004, Romania, ISBN: 973-97258-3-X, 2004.
4. G. Figliolini, P. Rea, S.D. Stan, Gait analysis of a six-legged walking robot when a leg failure occurs, 9th CLAWAR Int. Conf. on Climbing and Walking Robots, Brussels, Belgium, pp. 276-283, 2006.
5. O. Tatar, S. Stan, The command and control of in-pipe inspection mobile minirobots with adaptive structure, SYROM 2005, The Ninth IFToMM International Symposium on Theory of Machines and Mechanisms, 2005, Bucharest, pag. 839-844, ISBN 973-718-289-8, 2005.
6. Mandru, D., Stan, S., The systematization of the robotic systems for hand kinetotherapy, Proceedings of the Conference Inter-Ing, Targu-Mures, ISBN 973-7794-41-9, 2005.

7. D. Mandru, S. Stan, Exerciser For Wrist Kinethotherapy, The IFToMM-COMEFIM-8 The 8th International Conference on Mechatronics and Precision Engineering, Acta Technica Napocensis, Series Applied Mathematics and Mechanics 49, VOL. II, ISSN 1221-5872, pp. 325-330, 2006.
8. Tătar, M. O., Ardelean, I., Mândru, D., Stan, S. – Mechanisms used in construction of mobile minirobots, The 1st International Conference ADVANCED ENGINEERING IN MECHANICAL SYSTEMS – ADEMS'07, 7 - 8 JUNE 2007, Cluj-Napoca, in Acta Technica Napocensis, Series: Applied Mathematics and Mechanics, 50, Vol II, 2007, pag. 169-174, ISSN 1221 – 5872.
9. Olimpiu Tătar, Dan Mândru, S. Stan, Acționarea microroboților de inspecție în țevi, The 8th National Symposium with International Participation COMPUTER AIDED DESIGN - PRASIC'06, Brașov, 9 - 10th November 2006, ISBN (10) 973-653-824-0; (13) 978-973-635-824-1.
10. S. Stan, Ciprian LĂPUȘAN, Workspace analysis of a 2 dof mini parallel robot, The 8th National Symposium with International Participation COMPUTER AIDED DESIGN - PRASIC'06, Brașov, 9 - 10th November 2006, pag. 175-180, ISBN (10)973-653-824-0; (13)978-973-635-824-1.
11. S. Stan, M. Manic, C. Szep and R. Balan, "Performance analysis of 3 DOF Delta parallel robot," 2011 4th International Conference on Human System Interactions, HSI 2011, Yokohama, 2011, pp. 215-220. doi: 10.1109/HSI.2011.5937369 URL: <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5937369&isnumber=5937329> ISI Proceedings WOS:000392284600028 http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=73&SID=F3nDFfyge9y99SaggKf&page=1&doc=2
12. M. Coman, S. Stan, M. Manic and R. Balan, "Application of distance measuring with Matlab/Simulink," 3rd International Conference on Human System Interaction, Rzeszow, 2010, pp. 113-118. doi: 10.1109/HSI.2010.5514581, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=5514581&isnumber=5514476> ISI Proceedings WOS:000416070000018 http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=54&SID=F3nDFfyge9y99SaggKf&page=3&doc=21&cacheurlFromRightClick=no
13. McCarty K., Manic M., Stan SD. (2010) Contextual Data Rule Generation For Autonomous Vehicle Control. In: Sobh T. (eds) Innovations and Advances in Computer Sciences and Engineering. Springer, Dordrecht, https://doi.org/10.1007/978-90-481-3658-2_22, ISBN 978-90-481-3657-5, ISI Proceedings WOS:000281247700022 http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=54&SID=F3nDFfyge9y99SaggKf&page=3&doc=22&cacheurlFromRightClick=no
14. Andrea Aurora Racz, Ionuț Muntean, Sergiu-Dan Stan, A Look into Electric/Hybrid Cars from an Ecological Perspective, Procedia Technology, Volume 19, 2015, Pages 438-443, ISSN 2212-0173, <https://doi.org/10.1016/j.protcy.2015.02.062>. (<http://www.sciencedirect.com/science/article/pii/S2212017315000638>) (ISI Proceedings WOS:000358732500061) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=54&SID=F3nDFfyge9y99SaggKf&page=1&doc=7&cacheurlFromRightClick=no

15. Alexandra Antonia Buşu, Ionuţ Muntean, Sergiu-Dan Stan, An Analysis of the Current Challenges of WEEE Remanufacturing, *Procedia Technology*, Volume 19, 2015, Pages 444-450, ISSN 2212-0173, <https://doi.org/10.1016/j.protcy.2015.02.063>.
(<http://www.sciencedirect.com/science/article/pii/S221201731500064X>) (ISI Proceedings WOS:000358732500062) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=54&SID=F3nDFfyge9y99SaggKf&page=1&doc=8&cacheurlFromRightClick=no
16. I. Muntean, S. Stan, M. Abrudean and K. Chao, "Remote Management: An Architecture for Mechatronic Systems," 2013 IEEE 10th International Conference on e-Business Engineering, Coventry, 2013, pp. 498-503. doi: 10.1109/ICEBE.2013.78, <http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6686311&isnumber=6686216> , (ISI Proceedings WOS:000330341500078) http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=54&SID=F3nDFfyge9y99SaggKf&page=2&doc=11&cacheurlFromRightClick=no
17. Khaled Assad Arrouk, Belhassen Chedli Bouzgarrou, Sergiu Dan Stan, Grigore Gogu, "CAD Based Design Optimization of Planar Parallel Manipulators", *Solid State Phenomena*, Vols. 166-167, pp. 33-38, 2010.
<https://doi.org/10.4028/www.scientific.net/SSP.166-167.33> ISI Proceedings WOS:000289532000004
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18. Raţ N.R., Neagoe M., Diaconescu D., Stan S.D., Bălan R. (2010) Dynamic modeling and VR Simulation of 3DOF medical parallel robots. In: Iskander M., Kapila V., Karim M. (eds) *Technological Developments in Education and Automation*. Springer, Dordrecht https://doi.org/10.1007/978-90-481-3656-8_55 ISI Proceedings WOS:000281247800055 http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=GeneralSearch&qid=105&SID=F3nDFfyge9y99SaggKf&page=1&doc=1

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