



## Lista în extenso a lucrărilor în format tipărit și în format electronic

Șef lucrări dr. ing. NOVEANU Simona

### a) Lucrări relevante care sunt incluse în format electronic în dosar

1. **Noveanu, S.**, Lobontiu, N., Lazaro, J., & Mandru, D. (2015). Substructure compliance matrix model of planar branched flexure-hinge mechanisms: Design, testing and characterization of a gripper. *Mechanism and Machine Theory*, 91, 1–20. <https://doi.org/10.1016/j.mechmachtheory.2015.04.001>. (IF 1.689)
2. **Noveanu, S.**, Ivan, A.I., Noveanu, D.C., Rusu, C., Lates, D., (2020). SiMFlex Micromanipulation Cell with Modular Structure, *Applied Science* 10, 1-10., /<https://www.mdpi.com/2076-3417/10/8/2861>(IF 2.217)
3. Lobontiu, N., Cullin, M., Petersen, T., Alcazar, J. A., & **Noveanu, S.** (2014). Planar compliances of symmetric notch flexure hinges: The right circularly corner-filletted parabolic design. *IEEE Transactions on Automation Sci and Engineering*, 11(1), 169–176. <https://doi.org/10.1109/TASE.2012.2228853>. (IF 2.428)
4. Rakotondrabe, M., Ivan, I. A., Stihl, V., **Noveanu, S.**, & Minca, E. (2011). Design and modeling of a piezoelectrically actuated microvalve. *Romanian Journal of Physics*, 56(1–2), 141–149, <https://hal.archives-ouvertes.fr/hal-00635563>. (IF 0.414)
5. Lungu, I., Ivan, I. A., Rakotondrabe, M., **Noveanu, S.**, Ștefan, V., & Mândru, D. (2017). Design and control of a series of linear and rotary actuators based on shape memory alloy wires. *Control Engineering and Applied Informatics*, 19(2), 80–89, <http://www.ceai.srait.ro/index.php?journal=ceai&page>. (IF 0.698)
6. **Noveanu, S.**, Rusu, C., Rancea, C., & Lateș, D. (2020). Research Concerning the End-effectors for SiMFlex Microgripper. In *IOP Conference Series: Materials Science and Engineering*, 724, Institute of Physics Publishing. <https://doi.org/10.1088/1757-899X/724/1/012055>
7. **Noveanu, S.**, Lates, D., Fusaru, L., & Rusu, C. (2020). A New Compliant Microgripper and Study for Flexure Hinges Shapes. *Procedia Manufacturing*, 46, 517–524, doi: 10.1016/j.promfg.2020.03.074.
8. **Noveanu, S.**, Rusu, C., Mândru, D., (2015). Design and Simulation the Manipulator Si2M Used in Microfactories, *Applied Mechanics and Materials*, 762, 27-32, Trans Tech Publications, doi:10.4028/www.scientific.net/AMM.762.27.
9. **Noveanu, S.**, Mândru, D., Lungu, I., & Csibi, V. (2010). Numerical analysis and experimental research of a compliant minigripper. In *Solid State Phenomena*, 164, 383–386, Trans Tech Publications, <https://doi.org/10.4028/www.scientific.net/SSP.164.383>.
10. **Noveanu, S.**, Csibi, I.V., Mandru, D., Noveanu, D., Lungu, I. (2015). Minigriper compliant cu actuator piezoelectric, Brevet nr. RO 127385/30.05.2015.

### b) Teza de doctorat

1. Contribuții privind studiul mecanismelor compliante specifice sistemelor mecatronice, (2009). Universitatea Tehnică din Cluj-Napoca. Conducător științific: Prof.dr.ing. V.I. Csibi, Domeniul: Inginerie Mecanică.



### c) Brevet de invenție

1. Noveanu, S., Csibi, I.V., Mandru, D., Noveanu, D., Lungu, I. (2015). Minigriper compliant cu actuator piezoelectric, Brevet nr. RO 127385/30.05.2015 OSIM.

### d) Cărți și capitole în cărți

#### Cărți

1. Noveanu, S. (2020). Mecanisme cu bare. Analiza structurala si cinematica. Editura UTPress, Cluj-Napoca, ISBN 978-606-737-452-0
2. Noveanu, S. (2020). Sisteme mecanice de precizie, Editura UTPress, Cluj-Napoca, ISBN 978-606-737-4322.
3. Mândru, D., Crișan, R., Tătar, M.O., Noveanu, S. (2004). Acționări în Mecanica Fină și Mecatronică, Editura Alma Mater, Cluj-Napoca, ISBN 973-8397-69-3.

#### Capitole în cărți

4. Noveanu, S., Csibi, V.I., Ivan, A.I., Mândru, D. (2010). Design and Modelling a MiniSystem with Piezoelectric Actuator, in vol. New Trends in Mechanism Science. Analysis and Design, Eds: Doina Pisla, Merco Ceccarelli, Manfred Husty, Burkhard Corves, Editura Springer, pp. 125-133, ISBN 978-90-481-9688-3, DOI 10.1007/978-90-481-9689-0
5. Mândru, D, Lungu, I, Noveanu, S. (2009) Laboratorul “Biomecatronică, Acționări în mecanica fină și mecatronică, Echipamente periferice ale calculatoarelor”, în Platforme mecatronice pentru educație și cercetare, Coordonator: Vistrian Măties, Editura Todesco, Cluj-Napoca, ISBN 978-973-7695-79-6.

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

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1. Lungu, I., Mandru, D., Noveanu, S. (2008) Less Expansive Equipment for Mechatronics Training and Education, Elektronika ir Elektrotehnika Journal, 2008m., T170, ISSN 2029-5731. (IF 0.684)
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3. Lobontiu, N., Cullin, M., Petersen, T., Alcazar, J. A., & Noveanu, S. (2014). Planar compliances of symmetric notch flexure hinges: The right circularly corner-filletted parabolic design. IEEE Transactions on Automation Science and Eng, 11(1), 169–176. <https://doi.org/10.1109/TASE.2012.2228853>. (IF 2.428)
4. Tiuca, T., Rusu, C.; Noveanu, S.; Besoiu, S., Mandru D., (2015). The simulation and the interface of the mechanisms used in microfactories, Acta Technica Napocensis Series-Applied Mathematics Mechanics And Engineering Volume: 58 Issue 4, 609-61, ISSN 1221- 5872.
5. Noveanu, S., Lobontiu, N., Lazaro, J., & Mandru, D. (2015). Substructure compliance matrix model of planar branched flexure-hinge mechanisms: Design, testing and characterization of a gripper. Mechanism and Machine Theory, 91, 1–20. <https://doi.org/10.1016/j.mechmachtheory.2015.04.001>. (IF 1.689)
6. Lungu, I., Ivan, I. A., Rakotondrabe, M., Noveanu, S., Ștefan, V., & Mândru, D. (2017). Design and control of a series of linear and rotary actuators based on shape memory alloy wires. Control Engineering and Applied Informatics, 19(2), 80–89. (IF 0.698)
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9. Mândru, D., Lungu, I., Noveanu, S., Tătar, O. (2009). Analysis of Time Response of Shape Memory Alloy Actuators Modular System, *Solid State Phenomena* Vol.147-149, 2009, pp. 726-731, doi:10.4028/3-908454-04-2.726. [SCOPUS]
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13. Lates D., Noveanu, S., Csibi, V. I. (2014) Micropositioning System with Flexure Hinges for microfactories, *Key Engineering Materials*, Volume 581, pag.485-490, Miskolc. <http://www.ttp.net/1013-9826.htm>
14. Mândru D., Ianosi-Andreeva-Dimitrova A., Abrudean A., Noveanu., Tătar O. (2015) Innovative Assistive and Rehabilitation Robotic Systems, *Journal Plus Education*, vol. XII A, Special Issue, pp. 30-34, ISSN: 1842-077X. [SCOPUS]
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17. Mândru, D., Rusu, C., Noveanu, S. (2004). Research concerning the development of a robotic system for rehabilitation exercises, *Mecatronica*, nr. 2, pag. 55 – 60, ISSN 1583-7653.
18. Noveanu, S., Csibi, V., Noveanu, D. (2005) The variuos flexure hinge geometry and anaysis using the finite element, *Revista Romana de Mecanica Fina, Optica si Mecatronica*, supliment la nr.28/2005, Bucuresti, pag.29-32, ISSN 1584-5982.
19. Mândru, D., Tatar, O., Noveanu, S. (2006) Interactive System for Learning the Braille Alphabet and the Fingerspelling Signs, *Annals of the University of Oradea, Fascicle of Management and Technological Engineering*, CD-ROM Edition, vol. V(XV), pp. 631-638, ISSN 1583-0691.
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21. Mandru, D., Noveanu, S., Tatar, O. (2007). Educational Tool for Children with Sensorial Disabilities, *Meditech 2007, Acta Electrotehnica*, vol. 48, no. 4, pp. 7-12, ISSN 1841-3323.
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23. Mândru, D., Lungu, I., Noveanu, S., Tătar, O. (2008). Applications of Shape Memory Alloy Actuators in Biomedical Engineering, *Annals of the University of Oradea, Fascicle of Management and Technological Engineering*, CD-ROM Edition, Volume VII (XVII), pp. 922-927, ISSN 1583-0691.
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25. Chetran, B., Mândru, D., Noveanu, S., Tătar, O., Răducanu, G. (2012) Electrorheological Fluid Brake for Active Physiotherapy Systems, *Acta Universitatis Sapientiae – Electrical and Mechanical Engineering*, vol. 4, pag. 83-95, ISSN 2066-8910.
26. Tătar, M.O., Mândru, D., Noveanu, S., Chetran, B. (2013). The kinematic model of 3 DOF rehabilitation robotic exoskeletons, *Revista Robotica & Management*, ISSN 1453 2069, nr. vol. 18, nr. 2, pag. 26 31.
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29. Jișa, V. S., Chetran, B., Noveanu, S., Crișan, N. (2013) Actuating systems based on two bellows, *Journal of Reliability and Durability*, 2013, p141-145. 2013, ISSN 1844-640X.
30. Tiuca, T., Rusu, C., Noveanu, S., Mândru, D. (2015). Study of a General KBE Model for Mechanical Systems Analysis, *Scientific Bulletin Series C: Fascicle Mechanics, Tribology, Machine Manufacturing Technology*, Vol. 2015 Issue 29, p86-89. 4p., ISSN 1224-3264.
31. Noveanu, S., Lăpușan, C., Rusu, C., Rad, C. (2019). The Flex Mentoring model proposed in the HEIBus project, *Review of Management & Economic Engineering* 18 (4), 1583-624X.

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

### Articole indexate Web of Science

1. Mândru, D., Lungu, I., Noveanu, S., Tătar, M.O. (2009). New actuation systems based on shape memory alloys, *Proceedings of the 4th International Conference Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, ATOM-N 2008*, ISBN 978-973-755-387-4, SPIE Proceedings Vol. 7297, 72970P, doi:10.1117/12.823635. [Web of Science]
2. Mândru, D., Lungu, I., Noveanu, S., Tatar, O. (2010). Shape Memory Alloy Wires as Actuators for a Minirobot, *Proceedings of the 2010 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR) Theta 17*, Cluj-Napoca, pp. 333-336, IEEE Catalog Number CFP10AQT-CDR, ISBN: 978-1-4244-6722-8. [Web of Science]
3. Noveanu, S., Mândru, D., Lungu, I., & Csibi, V. (2010). Numerical analysis and experimental research of a compliant minigripper. In *Solid State Phenomena*, 164, 383–386, Trans Tech Publications, <https://doi.org/10.4028/www.scientific.net/SSP.164.383>. [Web of Science]
4. Chetran, B. Mândru, D. Noveanu, S., Tătar, M.O. (2011). Linear Active / Passive Upper Limb Exerciser, *International conference on Advancements of Medicine and Health Care, through Technology, MediTech*, 29.08 – 02.09. Cluj-Napoca, MEDITECH 2011, IFMBE Proceedings 36, pp. 152–155. [Web of Science]
5. Noveanu, S., Chetran, B., Tătar, O., Răducanu, G., Mândru, D. (2013). Structural Synthesis of the Upper Limb Modular Wearable Exerciser, *Proceedings of the 17th International Conference on System Theory, Control and Computing, Sinaia*, pp. 693-697, IEEE Catalog Number CFP1336P-CDR, ISBN 978-1-4799-2228-4. [Web of Science]
6. Chetran, B., Noveanu, S., Tatar, O., & Mandru, D. (2014). A study of suitable resistive torque mechanisms for rehabilitation exoskeletons. In *EPE 2014 - Proceedings of the International Conference and Exposition on Electrical and Power Engineering*, pp. 178–181, CFP1447S-USB, ISBN 978-1-4799-5848-1, <https://doi.org/10.1109/ICEPE.2014.6969892>. [Web of Science]
7. Ianosi-Andreeva-Dimitrova, A., Mandru, D. S., Noveanu, S., & Tatar, M. O. (2016). A brain-computer interface for the control of a finger rehabilitation glove. In *Proceedings of the International Conference and Exposition on Electrical and Power Engineering, EPE*, pp. 344–347. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ICEPE.2016.7781359>. [Web of Science]
8. Tiuca, T. L., Rusu, C., Noveanu, S., & Mandru, D. (2016). General KBE model with inheritance and multi CAD support. In *IOP Conference Series: Materials Science and Engineering*, Vol. 147. Institute of Physics Publishing. <https://doi.org/10.1088/1757-899X/147/1/012066>. [Web of Science]
9. Rusu, C., Tiuca, T. L., Noveanu, S., & Mândru, D. (2016). A KBE tool for solving the mechanisms kinematics. *IOP Conference Series: Materials Science and Engineering*, 147(1). <https://doi.org/10.1088/1757-899X/147/1/012080>. [Web of Science]
10. Ianoși, A., Dimitrova, A., Noveanu, S., Tătar, O. M., & Mândru, D. S. (2016). Shoulder-elbow exoskeleton as rehabilitation exerciser. In *IOP Conference Series: Materials Science and Engineering*, Vol. 147. Institute of Physics Publishing. <https://doi.org/10.1088/1757-899X/147/1/012048>. [Web of Science]



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12. Chetran, B., Tătar, O., Noveanu, S., Mândru, D. (2014) A Proposal for a Driving System of a Four DOF Rehabilitation Exoskeleton, Proceedings of International Conference on Advancements of Medicine and Health Care through Technology – Meditech, Cluj-Napoca, Romania, Series: IFMBE Proceedings, Vol. 44. , pp. 7-10, XIV, ISBN 978-3-319-07653-9, DOI: 10.1007/978-3-319-07653-9\_2. [SCOPUS]
13. Noveanu, S., Rusu, C., Rancea, C., & Lateș, D. (2020). Research Concerning the End-effectors for SiMFlex Microgripper. In IOP Conference Series: Materials Science and Engineering, 724, Institute of Physics Publishing. <https://doi.org/10.1088/1757-899X/724/1/012055> [SCOPUS]
14. Mândru, D., Tătar, O., Noveanu, S., Ianoși-Andreeva-Dimitrova A. (2016) Design and Modelling 4 DOFs Upper Limb Exoskeleton, ICOME Craiova, Applied Mechanics and Materials Vol. 823, pp 107-112, Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/AMM.823.107
15. Lungu, I., Mândru, D., Noveanu, S., Tătar, M.O. (2008). Docking Mechanism Actuated by Shape Memory Alloy Actuator, Proceedings of the 7th France-Japan Congress on Mechatronics, 144, Le Grand-Bornand.
16. Csibi, V., Mândru, D., Noveanu, S., Crișan, R. (2003) Research concerning micromanipulation and design of microgrippers, în vol. Miskolczer Gesprache, Die neuesten ergebnisse auf dem gebiet fordertechnik und logistik, pag. 175 – 181, ISBN 963 661 595 0.
17. Csibi, V., Noveanu, S., Szancsali, C. (2004). A Bevel Cycloidal Drive, in vol. Miskolczer Gesprache, Die neuesten ergebnisse auf dem gebiet fordertechnik und logistik , Miskolc, pag. 57 – 62, ISBN 963661595 2.
18. Mandru, D., Noveanu, S., Tatar, O.(2006). Research Concerning the Development of Shape Memory Actuated Microgrippers, Proceedings of the 6th International Conference Research and Development in Mechanical Industry RaDMI, paper D-22, ISBN 86-83803-21-X .
19. Csibi, V., Noveanu, S., Lungu, I. (2007). Compliant mechanism in the structure of a microfactory, Proceeding of the 12th International Conference on Tools, Miskolc, pag. 293 – 302, ISSN 1215-0851.
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21. Mândru, D., Lungu, I., Noveanu, S., Tatar, O. (2010). Product Dissection as a method for learning Mechatronics, Proceedings of the 6th International Conference Mechatronic Systems and Materials MSM, Opole, pag. 144-145, ISBN 978-83-60691-78-6.
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### Studii publicate în volumele unor manifestări științifice internaționale recunoscute din țara

1. Noveanu, S., Csibi, V. (2003) Rugalmas kapcsolódású mechanizmusok, Proceedings of the 11th International Conference in Mechanical Engineering OGET, Cluj-Napoca, pag. 169 – 173, ISBN 973-86097-2-0.



2. Mândru, D., Rusu, C., Noveanu, S. (2004). Cercetări privind dezvoltarea unui sistem robotizat pentru exerciții de reabilitare, Proceedings of the 7-th International Conference on Mechatronics and Precision Engineering COMEFIM'7, București, pag. 95 – 96, ISBN 973-86886-1-2.
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12. Noveanu, S., Mândru, D., Lungu, I., Tatar, O. (2009). Development of miniaturized systems based on compliant mechanisms, Proceedings of the AFASES – The International Session of the XI-th Scientific Papers “Scientific Research and education in the Air Force”, pp. 962 – 967, Henry Coanda Air Force Academy, Brasov, 2009, ISBN 978-973-8415-67-6.
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Semnatura,

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