Nume Prenume: CERLINCĂ Delia-Aurora
Gradul didactic: Conferențiar doctor inginer
Instituția unde este titular: Universitatea ”Ștefan cel Mare” din Suceava
Facultatea: Inginerie Mecanică, Autovehicule și Robotică
Departamentul: Mecanică și Tehnologii

LISTA
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

"Efectul unor defecte de suprafaţă asupra distribuţiei de presiune, stării de tensiuni şi oboselii la contactul hertzian cu rostogolire", susţinută public pe data de 10.09.2003 în domeniul Inginerie Mecanică, conducător ştiinţific Prof. dr. ing. Emanuel Diaconescu, Membru corespondent al Academiei Române, Universitatea "Ştefan cel Mare", Suceava

B. Cărţi si capitole în cărţi publicate în ultimii 10 anii

1B Delia Cerlinca, Desen tehnic, Ed. MatrixRom, Bucureşti, 2008, ISBN 978-973-755-348-5, 262 pg

2B Delia Cerlinca, Infografică, Ed. MatrixRom, Bucureşti, 2008, ISBN 978-973-755-349-2, 137 pg

3B Delia Cerlinca, Sergiu Spinu, Influenţa defectelor de suprafaţă asupra durabilităţii la oboseala de contact, 2017, Editura Matrix Rom, Bucureşti, 280 pagini, ISBN 978-606-25-0310-9,

4B Sergiu Spinu, Delia Cerlinca Modelarea şi simularea contactului mecanic în domeniul elasto-plastic, 2017, Editura Matrix Rom, Bucureşti, 146 pagini, ISBN 978-606-25-0345-1,

5B Sergiu Spinu, Delia Cerlinca, Modelarea şi simularea contactului mecanic în domeniul elastic, 2017, Editura Matrix Rom, Bucureşti, 210 pagini, ISBN 978-606-25-0327-7,

6B

C Lucrări indexate ISI/BDI publicate în ultimii 10 anii

1C Cerlincă, DA., Tamașag, I., Beșliu-Băncescu, I. (2025). The Influence of Interlayer Ironing on Dimensional Accuracy of ASA MEX Manufactured Parts. In: Chiru, A., Covaciu, D. (eds) CONAT 2024 International Congress of Automotive and Transport Engineering. CONAT 2024. Proceedings in Automotive Engineering. Springer, Cham. https://doi.org/10.1007/978-3-031-77631-1_22

2C Lupascu, C., Alaci, S., Romanu, IC., Ciornei, FC., Ciocirlan, TM., Cerlinca, DA. (2025). Method and Device for the Evaluation of the Static and Dynamic Coefficients of Friction. Part 2: Construction of the Device and Methodology. In: Doroftei, I., Lovasz, EC. (eds) New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2024. Mechanisms and Machine Science, vol 178. Springer, Cham. https://doi.org/10.1007/978-3-031-87537-3_9

3C Ciocirlan, TM., Alaci, S., Romanu, IC., Ciornei, FC., Lupascu, C., Cerlinca, DA. (2025). Method and Device for the Evaluation of the Static and Dynamic Coefficients of Friction. Part 1: Proposed Method. In: Doroftei, I., Lovasz, EC. (eds) New Advances in Mechanisms, Mechanical Transmissions and Robotics. MTM&Robotics 2024. Mechanisms and Machine Science, vol 178. Springer, Cham. https://doi.org/10.1007/978-3-031-87537-3_8

4C Cerlincă, DA., Tamașag, I., Beșliu-Băncescu, I., Severin, TL., Dulucheanu, C., Experimental investigation of FDM manufacturing of 316 l stainless steel. Int J Adv Manuf Technol 135, 1449–1463 (2024). https://doi.org/10.1007/s00170-024-14602-8

5C Alaci, S.; Lupascu, C.; Romanu, I.-C.; Cerlinca, D.-A.; Ciornei, F.-C. Some Aspects of the Effects of Dry Friction Discontinuities on the Behaviour of Dynamic Systems. Computation 2024, 12, 181. https:// doi.org/10.3390/computation12090181

6C Tămășag, I., Beșliu-Băncescu, I., Severin, T.L., Dulucheanu, C., Cerlincă, D.A., 2023, Experimental Study of In-Process Heat Treatment on the Mechanical Properties of 3D Printed Thermoplastic Polymer PLA, revista „Polymers", ISSN: 2073-4360, Volume 15, Issue 10, 2367 (pp.1 - 21), Published by MDPI, Elveția, 2023 (WOS: 000997732700001; DOI: 10.3390/polym15102367), indexat în Clarivate Analytics - Web of Science, factor de impact 5,000 (revista în zona roșie - Q1) și Scopus;

7C Cerlinca, D., Spinu, S., 2023, Symmetrically distributed eigenstrains in a thin sheet of material, International Journal of Modern Manufacturing Technologies, Volume 15, Issue 3 Special Issue, Pages 28 – 35

8C Cerlinca, D., Spinu, S., Glovnea, M., 2023, The elastic contact problem involving a bilaterally loaded thin strip, International Journal of Modern Manufacturing Technologies, Volume 15, Issue 1, Pages 44 – 50

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10C Dulucheanu, C., Severin, T.L., Cerlinca, D.A., Irimescu, L., 2022, Structure and Mechanical Properties of Some Dual-Phase Steels with Low Manganese Content, revista „Metals", ISSN: 2075-4701, Volume 12, Issue 2, 189 (pp.1 - 12), Published by MDPI, Elveția, 2022 (WOS: 000772038000001; DOI: 10.3390/met12020189), indexat în Clarivate Analytics - Web of Science, factor de impact 2,695 (revistă în zona galbenă) și Scopus

11C Cerlinca, D., Spinu, S., 2022, Numerical simulation of elastic-plastic contact with isotropic hardening, International Journal of Modern Manufacturing Technologies Volume 14, Issue 2, Pages 294 – 301

12C Cerlinca, D., Spinu, S., 2022, Thermoelastic displacement due to transient surface heating, International Journal of Modern Manufacturing Technologies, Volume 14, Issue 3, Pages 319 – 325

13C Dulucheanu, C., Severin, T., Cerlincă, D., Tamașag, I., Irimescu, L., 2022, Laboratory studies of a dual-phase steel with 0.53% mn structures, TEHNOMUS – New Technologies and Products in Machine Manufacturing Technologies", ISSN: P - 1224-029X, E – 2247-6016, nr.29, pp. 43-49, 2022, indexat în Index Copernicus, EBSCO HOST Conection, Google Scholar https://fim.usv.ro/wp-content/uploads/sites/9/2023/01/06.pdf

14C Cerlinca, D., Spinu, S., A numerical approach to the contact of nominally flat surfaces, International Journal of Modern Manufacturing Technologies, 2021, 13(3 Special issue), pp. 22–28, indexat Scopus

15C Cerlinca, D., Spinu, S., A comparative study of FFT algorithms for convolution calculation in non-periodic elastic contacts, International Journal of Modern Manufacturing Technologies, 2021, 13(2), pp. 7–13, indexat Scopus

16C Bancescu, I. B., Tamasag, I., Slătineanu, L., Cerlinca, D., 2021, Study of Incremental Forming Process of Polycarbonate Sheets (No. 2021-01-0835). SAE Technical Paper, Publisher: Society of Automotive Engineers (SAE), ISSN: 0148-7191, https://doi.org/10.4271/2021-01-0835

17C Severin, T.L., Dulucheanu, C., Cerlinca, D.A., Irimescu L., 2021, Considerations Regarding the Extension Bending of Wide Bands on double Convex Surfaces, revista „TEHNOMUS – New Technologies and Products in Machine Manufacturing Technologies", ISSN: P - 1224-029X, E – 2247-6016, nr.28, pp. 52-56, 2021, indexat în Index Copernicus, EBSCO HOST Conection, Google Scholar

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19C Spinu, S., Cerlinca, D., 2020, The Fretting Contact of Coated Bodies. Part I-Contact Parameters, IOP Conference Series: Materials Science and Engineering, 724:012026, DOI: 10.1088/1757-899X/724/1/012026

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21C Cerlinca, D., Spinu, S., 2020, Acceleration of numerical solution of elastic contact problems by a dual-grid approach, IOP Conf. Ser.: Mater. Sci. Eng. 916:012017, https://doi.org/10.1088/1757-899X/916/1/012017

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23C Dulucheanu, C., Severin, T.L., E., Irimescu L., Cerlinca, D.A., 2020, Influence of the Cycles of Heat Treatments on the Structure and Mechanical Properties of a Dual-Phase Steel with Low manganese Content, "20th International Multisciplinary Scientific GeoConferince SGEM 2020", 8 – 11 decembrie 2020, Viena, Austria, Conference Proceedings, Volume 20, Book 6.2, pp. 11-18, (DOI: 10.5593/sgem2020V/6.2/s07.02), indexat în Scopus, EBSCO HOST Conection, CrossRef, Springer Nature, ProQuest, RSCI (РИНЦ), Google Scholar, Mendeley, British Library

24C Dulucheanu, C., Severin, T.L., Cerlinca, D.A., Irimescu L., Bazga, N., 2020, Influence of the laboratory equipment on research results on a low manganese dual-phase steel", revista „TEHNOMUS – New Technologies and Products in Machine Manufacturing Technologies", ISSN: P - 1224-029X, E – 2247-6016, nr.27, pp.39-45, 2020, indexat în Index Copernicus, EBSCO HOST Conection, Google Scholar

25C Dulucheanu, C., Severin, T.L., Berariu, E., Irimescu L., Cerlinca, D.A., 2020, Influence of the Structure Succession on the Volume Fraction of Martensite and Ferrite Microhardness in a Dual-Phase Steel with Low Manganese Content, "20th International Multisciplinary Scientific GeoConferince SGEM 2020", 18 – 24 august 2020, Albena, Bulgaria, Conference Proceedings, Book 6.1, Volume 20, pp. 69-76, (DOI:10.5593/sgem2020/6.1/s24.010), indexat în Scopus, EBSCO HOST Conection, CrossRef, Springer Nature, ProQuest, RSCI (РИНЦ), Google Scholar, Mendeley, British Library

26C Spinu, S.; Cerlinca, D., Musca, I., 2019, The frictional contact of coated bodies. Part I – The sliding contact, IOP Conference Series: Materials Science and Engineering, Vol. 591, ID 012069

27C Spinu, S.; Cerlinca, D., Musca, I., 2019, The frictional contact of coated bodies. Part II – The slip-stick contact, IOP Conference Series: Materials Science and Engineering, Vol. 591, ID 012070, indexat Scopus

28C Spinu, S.; Cerlinca, D., Musca, I., 2019, FRETTING STRESSES IN THE CONTACT OF COATED BODIES, Tehnomus Journal Vol. 26, pp. 37-43

29C Spinu, S., Cerlinca, D., 2018, Numerical simulation of elastic bilayered contact. Part I - Contact parameters, IOP Conference Series: Materials Science and Engineering, Volume 400, Issue 4, 20 September 2018, Article number 042054, indexat Scopus

30C Spinu, S., Cerlinca, D., 2018, Numerical Simulation of Elastic Bilayered Contact. Part II - Stress State Analysis, IOP Conference Series: Materials Science and Engineering, Volume 400, Issue 4, 20 September 2018, Article number 042055, indexat Scopus

31C Beşliu, I., Amarandei, D., Cerlincă, D., 2018, Analysis of chip formation and cutting forces in end milling AISI D2 tool steel with different cutting tool geometries, MATEC Web Conf., vol. 178, doi10.1051/matecconf/201817801016, indexat EBSCO, Pro Quest

32C Spinu, S., Cerlinca, D., 2017, Numerical simulations of rough contacts between viscoelastic materials, IOP Conference Series: Materials Science and Engineering, Vol.227, 012120, 8 pp.

33C Spinu, S., Cerlinca, D., 2017, Prediction of static friction coefficient in rough contacts based on the junction growth theory, IOP Conference Series: Materials Science and Engineering, Vol.227, 012119, 8pp.

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35C Spinu, S., Cerlinca, D., 2017, The surface contact of viscoelastic materials. part i – algorithm overview, Tehnomus Journal, Vol. 24, p. 258-265, indexed by Ebsco.

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37C Spinu, S., Cerlinca, D., 2016, A robust algorithm for the contact of viscoelastic materials, IOP Conference Series: Materials Science and Engineering, Vol. 145, 042034, 8 pp.

38C Spinu, S., Cerlinca, D., 2016, A numerical solution to the Cattaneo-Mindlin problem for viscoelastic materials, IOP Conference Series: Materials Science and Engineering, Vol. 145, 042033, 8 pp.

39C Alaci, S., Cerlincă, D., Ciornei, F., Filote, C., Frunză, G., 2015, Experimental Highlight of Hysteresis Phenomenon in Rolling Contact, Journal of Physics: Conference Series 585 (2015) 012010 doi:10.1088/1742-6596/585/1/012010, 1-9http://iopscience.iop.org/1742-6596/585/1/012010

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D **Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi** (neindexate)

- Selecţie cu maximum 20 lucrări în volume de conferinţe

1D Dulucheanu, C., Severin, T.L., Cerlinca, D.A., Irimescu L. ,Javorova, J., "Mechanical properties of some dual-phase steels with low manganese content", „Alternative Energy Sources, Materials & Technologies Conference – AESMT '21", 14 - 15 iunie 2021, Ruse, Bulgaria, Proceeding of short papers, Volume 3, ISSN 2603-364X, pp.85 – 86, 2021

E. **Brevete obţinute în întreaga activitate**

Nu este cazul

Data: Semnătura:

24.09.2025