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LISTA LUCRĂRILOR ȘTIINȚIFICE

A. Teza de doctorat

„*Optimizations under uncertainty with applications in rolling bearing industry*”

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B. Cărți și capitole în cărți

Cărți

1. Iuliu NEGREAN, Kalman KACSO, Claudiu SCHONSTEIN, Adina DUCA, **Florina RUSU** – *Mechanics. Theory and Applications*. Editura UTPRESS, Cluj-Napoca, 2015, ISBN 978-606-737-061-4.
2. **Florina Maria ȘERDEAN**, Iuliana Fabiola MOHOLEA, Radu Mircea MORARIU-GLIGOR, PROGRAMARE ÎN LIMBAJUL MATLAB CU APLICAȚII ÎN INGINERIE MECANICĂ, Volumul I, Editura UTPRESS, Cluj-Napoca, 2021, ISBN 978-606-737-529-9
3. Radu Mircea MORARIU-GLIGOR, Iuliana Fabiola MOHOLEA, **Florina Maria ȘERDEAN**, PROGRAMARE ÎN LIMBAJUL C CU APLICAȚII ÎN INGINERIE MECANICĂ, Volumul I, Editura UTPRESS, Cluj-Napoca, 2021, ISBN 978-606-737-550-3

Capitole în cărți

1. Adina CRISAN, **Florina RUSU**, Radu MORARIU-GLIGOR, Kalman KACSO. *Studiul diferitelor tipuri de frecări cu aplicații în ingineria mecanică*, capitol în *Organe de Mașini – Metodologie de predare a disciplinei la diferite specializări* editată de C. Bîrleanu, S. Haragâș, M. Pustan, Editura Risoprint, Cluj-Napoca, 2016, pp. 155-198, ISBN 978-973-53-1793-5
2. Radu MORARIU-GLIGOR, **Florina RUSU**. *Proiectarea asistată de calculator a arcurilor elicoidale cilindrice de compresiune*, capitol în *Organe de Mașini – Metodologie de predare a disciplinei la diferite specializări* editată de C. Bîrleanu, S. Haragâș, M. Pustan, Editura Risoprint, Cluj-Napoca, 2016, pp. 199-214, ISBN 978-973-53-1793-5
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1. Corina Birleanu, Simion Haragâș, Marius Pustan, Ovidiu Buiga, Crișan Horea, Claudiu Popa, Crăciun Ștefan, **Florina Șerdean**, *Organe de Mașini și Mecanisme. Lucrări de Laborator*, Editura UTPRESS, ISBN 978-606-737-503-9, 2021

A. LUCRĂRI ȘTIINȚIFICE INDEXATE ISI ȘI ISI PROCEEDINGS

ISI

1. **Florina RUSU**, Marius PUSTAN, Corina BIRLEANU, Raluca MULLER, Rodica VOICU, Angela BARACU, Analysis of the surface effects on adhesion in MEMS structures, *Applied Surface Science*, 358, 2015, 634-640 [ISI FI 3.15]
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10. **Florina Maria ȘERDEAN**, Violeta Valentina MERIE, Gavril NEGREA, Horea George CRIȘAN, Adhesion analysis for niobium nitride thin films deposited by reactive magnetron sputtering, Powder Metallurgy and Advanced Materials – RoPM&AM 2017 Materials Research Forum LLC, Materials Research Proceedings 8 (2018) 212-218 doi: <http://dx.doi.org/10.21741/9781945291999-24>
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3. **Florina RUSU**, Cristina TUDOSE, Lucian TUDOSE, Influence of rotation angle on bearing rolling bodies load distribution. Part 2: Simulation results, ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Vol. 56, Issue IV, 2013, pp.795-800

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6. **Florina RUSU**, Marius PUSTAN, Corina BIRLEANU, Analysis of the environmental conditions on the dynamical behavior of MEMS resonators, Proc. '13th European Conf. on Spacecraft Structures, Materials & Environmental Testing', Braunschweig, Germany, April 1–4, 2014 (ESA SP-727, June 2014), ISBN 978-92-9221-291-9, ISSN 1609-042X
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23. Oana Adriana CRIȘAN, Horea George CRIȘAN, Viorel DAN, **Florina Maria ȘERDEAN**, APPROACHING THE CIRCULAR ECONOMY IN ROMANIA - A HIGHER ALTERNATIVE TO THE LINEAR ECONOMY , ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Vol. 62, Issue I, 2019, pp.193-200
24. **Florina ȘERDEAN**, Adina CRIȘAN, A BENCHMARK STUDY OF KGCS OPTIMIZATION ALGORITHM, ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Vol. 62, Issue I, 2019, pp.163-168
25. J. Bilbao, E. Bravo, O. García, C. Rebollar, C. Varela, A. Uukkivi, O. Labanova, M. Latõnina, E. Safiulina, A. Cellmer, J. Cymerman, Igor Kierkosz, K. Brown, G. Kelly, A.p. Lopes, F. Soares, C. Feniser, V. Bocanet, F. Rusu, Exploring and Developing a Shared Understanding of the Issues Surrounding Engineering Mathematics, WSEAS Transactions on Information Science and Applications, ISSN / E-ISSN: 1790-0832 / 2224-3402, Volume 17, 2020, Art. #4, pp. 32-40, <https://www.doi.org/10.37394/23209.2020.17.4> [COPERNICUS]
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D. Lucrări publicate în reviste și volume de conferințe cu referenți (neindexate)

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4. Marius Pustan * , Corina BIRLEANU, Florina SERDEAN, Dynamic characterization of biosensing MEMS cantilevers with different position of the driving electrode - vacuum response versus ambient conditions, Published: 16 April 2021 by MDPI in Micromachines 2021 — 1st International Conference on Micromachines and Applications (ICMA2021) session Micromachines for bio-sensing, 10.3390/Micromachines2021-09594 (registering DOI), <https://sciforum.net/paper/view/9594>
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Semnătura
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