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Faculty: **Industrial Engineering, Robotics and Production Management**

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LIST OF SCIENTIFIC PAPERS

A. PhD. Thesis

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

Scientific coordinator: Prof.PhD.Eng. Lucian Tudose

Technical University of Cluj-Napoca

Public presentation: 16.12.2014

PhD Degree since 09.03.2015

B. Books and book chapters

Books

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

Book chapters

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
3. Adina CRISAN, **Florina RUSU**, Radu MORARIU-GLIGOR, Kalman KACSO. *Studiul diferitelor tipuri de frecări cu aplicații în ingineria mecanică*, capitol în *Metodologie de predare a disciplinei la diferite specializări – lucrări selectate* editată de C. Bîrleanu, S. Haragâș, M. Pustan, Editura UTPRESS, ISBN 978-606-737-149-9, Cluj-Napoca, 2016, pp. 99-142
4. Radu MORARIU-GLIGOR, **Florina RUSU**. *Proiectarea asistată de calculator a arcurilor elicoidale cilindrice de compresiune*, capitol în *Metodologie de predare a disciplinei la diferite*

specializări – lucrări selectate editată de C. Birleanu, S. Haragâș, M. Pustan, Editura UTPRESS, Cluj-Napoca, 2016, pp. 143-158, ISBN 978-606-737-149-9

5. Marius PUSTAN, Cristian DUDESCU, Corina BIRLEANU, **Florina RUSU**. *Nanocharacterization of the Mechanical and Tribological Behavior of MEMS Micromembranes*, chapter in Nanomechanics, Prof. Alexander Vakhrushev (Ed.), InTech, DOI: 10.5772/intechopen.68292. Available from: <https://www.intechopen.com/books/nanomechanics/nanocharacterization-of-the-mechanical-and-tribological-behavior-of-mems-micromembranes>, 2017

Laboratory work guides

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

C. ISI AND ISI PROCEEDINGS SCIENTIFIC PAPERS

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]
2. Lucian TUDOSE, **Florina RUSU**, Cristina TUDOSE, Optimal design under uncertainty of bearing arrangements, Mechanism and Machine Theory, 98, 2016, pp. 164-179 [ISI FI 2.577]
3. Simion HARAGAS, Ovidiu BUIGA, Claudiu POPA, **Florina RUSU**, Demolding moment calculation for injected parts with internal saw thread, Materiale Plastice, Vol. 53, pp. 378-381, 2016, ISSN 0025-5289 [ISI FI 0.778]
4. Crișan O.A., Pustan M. S., Birleanu C. J., Tiuc A.E., Sur I., Crișan H.G., **Șerdean M.F.**, Flămînd L., Rusu T., Qualitative analysis of filters for the mechanical nanofiltration of household drinking water, Studia UBB Chemia, LXV, 1, 2020 (p. 253-266) [ISI FI 0.447]
5. **Serdean F.**, Pustan M., Dudescu C., Birleanu C., Serdean M. (2020) Analysis of the Thermoelastic Damping Effect in Electrostatically Actuated MEMS Resonators, Mathematics 2020, 8(7), 1124; <https://doi.org/10.3390/math8071124> [ISI FI 2.258]
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2. Iuliu NEGREAN, Kalman KACSO, **Florina RUSU**, Energies of higher order in advanced dynamics of mechanical systems, Proceedings of 2014 International Conference on Production Research - Regional Conference Africa, Europe and the Middle East and 3rd International Conference on Quality and Innovation in Engineering and Management (ICPR- AEM 2014), Cluj-Napoca, Romania, July 1st -5th, 2014, pp. 346-351, ISBN: 978-973-662-978-5.
3. **Florina Maria RUSU**, Violeta Valentina MERIE, Ioana Mihaela PINTEA, Andreea MOLEA, Adhesion analysis for chromium nitride thin films deposited by reactive magnetron sputtering, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012023, pp. 1-7, doi:10.1088/1757-899X/147/1/012023, ACME 2016
4. Marius PUSTAN, Cristian DUDESCU, Corina BÎRLEANU, **Florina RUSU**, Radu CHIOREAN, Ștefan CRĂCIUN, Effect of geometrical dimensions on the tribomechanical response of a gold micromembrane with bent beam hinges, IOP Conf. Series: Materials Science and Engineering 147 (2016) 012022, pp. 1-9, doi:10.1088/1757-899X/147/1/012022, ACME 2016
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6. Corina BIRLEANU, Marius PUSTAN, **Florina RUSU**, Cristian DUDESCU, Raluca MULLER, Angela BARACU, Relative humidity effect on pull-off forces in mems flexible structures measured by afm. In 2017 Symposium on Design, Test, Integration and Packaging of MEMS/MOEMS (DTIP) Proceedings, 1–8 (IEEE, 2017)
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8. Corina Birleanu, Marius Pustan, Rodica Voicu, **Florina Șerdean**, Violeta Merie, Humidity influence on the adhesion of SU-8 polymer from MEMS applications, MATEC Web of Conferences 137, 08002 (2017)
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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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D. BDI SCIENTIFIC PAPERS

1. **Florina RUSU**, Cristina TUDOSE, Lucian TUDOSE, A new proof of rule of thumb regarding clearance variation with temperature in two tapered roller bearings in O-arrangement, ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Vol. 56, Issue IV, 2013, pp.789-794
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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
4. Cristina TUDOSE, **Florina RUSU**, Lucian TUDOSE, Influence of appropriate calculation of shaft support reactions on bearing life prediction, ACTA TECHNICA NAPOCENSIS – Series:

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5. Marius PUSTAN, **Florina RUSU**, Optimization of MEMS structures using Cuckoo Search Algorithm, ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Vol. 56, Issue IV, 2013, pp.785-788
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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8. Iuliu NEGREAN, Kalman KACSO, **Florina RUSU**, Formulations in Advanced Systems Dynamics, ACTA TECHNICA NAPOCENSIS – Series: APPLIED MATHEMATICS AND MECHANICS Vol. 57, Issue II, 2014, ISSN 1221-5872, pp.149-158
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13. Radu JELER, **Florina RUSU**, Radu BĂLAN, Comfort index calculation using artificial neural networks, ACTA TECHNICA NAPOCENSIS – Series : APPLIED MATHEMATICS AND MECHANICS, ISSN 1221-5872, Vol. 58, Issue II, 2015, pp. 263-266
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 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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E. Papers published in journals and conference volumes with references (not indexed)

1. Lucian Tudose, Constantin Ursache, Cristina Tudose, **Florina Rusu**, Optimal 2ZB approximation of optimal profile of rolling bearings cylindrical rollers, Proceedings of the 5th International Conference on Power Transmissions BAPT2016, Ohrid, Macedonia, 2016, pp. 99-113
2. Filomena Soares, Ana Paula Lopes, Ken Brown, Anne Uukkivi, Elena Safiulina, Anna Cellmer, Cristina Feniser, Carolina Rebollar, Concepción Varela, Eugenio Bravo, Gerry Kelly, Javier Bilbao, Joanna Cymerman, Olatz García, Oksana Labanova, Vlad Bocanet, Errol Martin, Florina Serdean, Igor Kierkosz, Volodymyr Sushch, Using STACK to promote random questions in Practice Moodle Quizzes, The 3rd International STACK Conference, April 2020, DOI: 10.13140/RG.2.2.30525.82407
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- C. Feniser, V. Bocanet, **F. Rusu**, Bringing Mathematics to Engineering: Online Learning-Teaching Model
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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