

A. Lista celor mai relevante lucrări

1. **Cazacu, R.**, Grama, L., *Steel truss optimization using genetic algorithms and FEA*, Procedia Technology, Volume 12, 2014, pp 339-346.
2. **Cazacu, R.**, Grama, L., Mocian, I., *An OOP MATLAB Extensible Framework for the Implementation of Genetic Algorithms. Part I: The Framework*, Procedia Technology, Vol. 19, Nr. 1, 2015, pp 193-200
3. **Cazacu, R.**, Grama, L., Mocian, I., *An OOP MATLAB Extensible Framework for the Implementation of Genetic Algorithms. Part II: Case Study*, Procedia Technology, Vol. 19, Nr. 1, 2015, pp 201-206
4. **Cazacu, R.**, Grama, L., Groza, M.D., *Shape and Size Optimization of a Gearbox Bracket Using Genetic Algorithms*, Annals of the Oradea University, Vol. 24(14), Nr. 1, 2015, pp 13-16
5. Mocian, I., **Cazacu, R.**, *Software for computer aided manufacturing with the MORI SEIKI CNC milling machine*, Procedia Technology, Volume 12, 2014, pp 369-374.
6. **Cazacu, R.**, Mocian, I., *Software for computer aided manufacturing of complex pockets*, Procedia Technology, Volume 12, 2014, pp 364-368.
7. Mocian, I., **Cazacu, R.**, *Aspects Regarding the Technologies on Wire EDM CNC Machines*, Applied Mechanics and Materials, Volume 371, 2013, pp 255-259.
8. Suciu, M., **Cazacu, R.**, Grigoras, R.I., Bica, C.I., *Parametric Modeling of the Human Mandible Lateral Body for the Shape Optimization of its Section in the Case of Bone Augmentation*, Procedia Technology, Vol. 19, 2015, pp 934-941
9. Mocian, I., **Cazacu, R.**, *A Study Regarding the Optimization of the Cutting of Parts from Metallic Strips*, Interdisciplinarity in Engineering Inter-Ing, Targu Mures, 2007.
10. Mocian, I., **Cazacu, R.**, *Study on the Possibilities of Dedicated CAD Applications Development for the Furniture Industry*, Interdisciplinarity in Engineering Inter-Ing, Targu Mures, 2009.

B. Teza de doctorat

Contribuții privind utilizarea algoritmilor evolutivi la optimizarea constructiv-tehnologica a reperelor prismatice la autovehicole, domeniul Inginerie Industrială, cond. științific prof. dr. ing. Grama Lucian, Universitatea din Oradea 2015

C. Cărți și capitole în cărți

1. Petrina, M., Bal, R., **Cazacu, R.**, Nedelcu, M., et al, *Utilizarea mediului grafic AutoCAD și Programare în AutoLISP*, U.T.PRES, Cluj-Napoca, 2006.
2. Mocian, I., **Cazacu, R.**, *Programarea și Utilizarea Calculatoarelor (1) - Lucrări de Laborator*, Târgu Mureș, 2008.
3. Mocian, I., **Cazacu, R.**, *Programarea și Utilizarea Calculatoarelor (2) - Lucrări de Laborator*, Târgu Mureș, 2010.
4. **Cazacu, R.**, Mocian, I., *Metode Numerice și Aplicații în MathCAD*, Târgu Mureș, 2014.

D. Lucrări apărute în volumele unor conferințe, indexate ISI/BDI

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2. Mocian, I., **Cazacu, R.**, *Aspects Regarding the Technologies on Wire EDM CNC Machines*, Applied Mechanics and Materials, Volume 371, 2013, pp 255-259.

3. **Cazacu, R.**, Grama, L., *Constructing 3D Surfaces from Random Sets of Points by Means of Level Curves*, Applied Mechanics and Materials, Volume 371, 2013, pp 483-487.
4. **Cazacu, R.**, Grama, L., *Structural Optimization with Genetic Algorithms and Particle Swarm Optimization*, Annals of the Oradea University, Volume 22(12), 2013, pp 19-22.
5. **Cazacu, R.**, Grama, L., *Evolutionary Computing in Structural Design Optimization Problems*, Annals of the Oradea University, Volume 22(12), 2013, pp 23-26.
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9. **Cazacu, R.**, Grama, L., *Comparative study for the size optimization of a tapered pipe cantilever beam using genetic algorithms*, Annals of the Oradea University, Volume 23(13), Issue 1, 2014, pp 59-62
10. **Cazacu, R.**, Grama, L., *Overview of structural topology optimization methods for plane and solid structures*, Annals of the Oradea University, Volume 23(13), Issue 3, 2014, pp 17-22
11. Mocian, I., **Cazacu, R.**, *Drill Hole Sets Manufacturing on CNC Machines*, Procedia Technology, Vol. 19, 2015, pp 135-140
12. Suci, M., **Cazacu, R.**, Grigoras, R.I., Bica, C.I., *Parametric Modeling of the Human Mandible Lateral Body for the Shape Optimization of its Section in the Case of Bone Augmentation*, Procedia Technology, Vol. 19, 2015, pp 934-941
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14. **Cazacu, R.**, Grama, L., Mocian, I., *An OOP MATLAB Extensible Framework for the Implementation of Genetic Algorithms. Part II: Case Study*, Procedia Technology, Vol. 19, 2015, pp 201-206
15. **Cazacu, R.**, Grama, L., Groza, M.D., *Shape and Size Optimization of a Gearbox Bracket Using Genetic Algorithms*, Annals of the Oradea University, Vol. 24(14), Nr. 1, 2015, pp 13-16

E. Lucrări apărute în volumele unor conferințe, neindexate

1. Olariu, I., Sarbu, D., **Cazacu, R.**, Nedelcu, M., *Kinematic-Energy Dissipating Earthquake Isolation Floor System: Part I*, Acta Technica Napocensis, Volume 44, 2001.
2. Olariu, I., Sarbu, D., **Cazacu, R.**, Nedelcu, M., *Kinematic-Energy Dissipating Earthquake Isolation Floor System: Part II*, Acta Technica Napocensis, Volume 45, 2003.
3. Olariu, I., Sarbu, D., **Cazacu, R.**, Nedelcu, M., Olariu, F., *Is Passive Control a Solution for Earthquake Resistant Structures located in Romania?*, Proceedings of the 2003 Symposium: Concrete Structures in Seismic Regions, Atena, 2003.
4. Olariu, I., Sarbu, D., **Cazacu, R.**, Nedelcu, M., Olariu, F., *Kinematic-Energy Dissipating Base Isolation System*, Proceedings of the 8th World Seminar on Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures, Erevan, 2003.

5. Olariu, I., Hreanean, D., **Cazacu, R.**, Nedelcu, M., Sucala, I., *Experimental Study and Inelastic Analysis of a R/C Line Pole*, Proceedings of the International Conference CONSTRUCTIONS 2003, vol. 1, Argonaut & Napoca Star, Cluj-Napoca, 2003.
6. Mocian, I., **Cazacu, R.**, *A Study Regarding the Optimization of the Cutting of Parts from Metallic Strips*, Interdisciplinarity in Engineering Inter-Ing, Targu Mures, 2007.
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8. Mocian, I., **Cazacu, R.**, *New Advances in Application Development for the Autocad Environment*, Proceedings of the 9-th International Conference Modern Technologies In Manufacturing, Cluj-Napoca, 2009, pp 181-186.
9. Mocian, I., **Cazacu, R.**, *The Determination of the Pressure Centers for Double Dies*, Proceedings of the 9-th International Conference Modern Technologies In Manufacturing, Cluj-Napoca, 2009, pp 187-192.
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11. Mocian, I., **Cazacu, R.**, *Computer Aided Administration of the Budget of a State Institution*, Interdisciplinarity in Engineering Inter-Ing, Targu Mures, 2009.
12. Mocian, I., **Cazacu, R.**, *Aspects Regarding the Aided Programming of the Electroerosion Machine ROBOFIL 310*, Interdisciplinarity in Engineering Inter-Ing, Targu Mures, 2011.
13. Mocian, I., **Cazacu, R.**, *Application for Students Knowledge Evaluation and Auto-Evaluation*, Proceedings of the 7th International Conference on Quality Management in Higher Education (QMHE), Iasi, 2012.
14. Mocian, I., **Cazacu, R.**, *Extracting Geometric Data from Catia Models*, Proceedings of the 6th Edition of the Interdisciplinarity in Engineering International Conference, Targu Mures, 2012, pp 34-37.
15. Mocian, I., **Cazacu, R.**, *Application for Archiving the Documents of a Budget Execution*, Proceedings of the 6th Edition of the Interdisciplinarity in Engineering International Conference, Targu Mures, 2012, pp 394-397.

Data:
23.06.2016

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