

LISTA LUCRARILOR PUBLICATE

1. Cărți, capitole de carte, îndrumar de laborator

Capitol de carte:

1. **Haba, S. A.,** Oancea, Gh., “*Design and Manufacturing Optimization of Single-Cylinder Engine Block Prototype Using CATIA Environment*“, Applied Mechanics and Materials, Trans Tech. Publication, Vol. 474 (2014), pp.165-170, doi:10.4028/www.scientific.net/AMM.474.165 (ISSN 1662-7482, FI 0).

Indrumar de laborator:

2. Oancea Gh., **Haba, S. A.,** (2021), “*Dezvoltarea Computerizată a Aplicațiilor în Inginerie*“, (contribuția autorilor: Oancea Gh. 40%, Haba, S. A. 60%), Editura Universității Transilvania din Brașov.

2. Lucrări științifice de tip “article” publicate în jurnale indexate ISI

1. **Haba, S. A.,** Oancea Gh., (2015), “*Digital manufacturing of air-cooled single-cylinder engine block*“, The International Journal of Advanced Manufacturing Technology, Vol. 78, Numbers 1-4, DOI 10.1007/s00170-015-7038-x, Springer-Verlag London;
2. **Haba, S. A.,** Oancea Gh., (2015), “*Studies on thermal contraction of crankshaft bearings under extreme low temperatures*“, Journal of Thermal Science, October 2015, Vol. 24, Iss. 5, pp. 496-501, DOI 10.1007/s11630-015-0813-z, Springer International Publishing AG; doi.org/10.17559/TV-2016040413575.
3. **Haba, S. A.,** Oancea Gh., (2020), “*Study on Thermal Expansion of a V10 Engine Block Used in Shrink-Fit Assembling*“, Tehnički vjesnik 27, 4(2020), 1031-1036, ISSN 1330-3651 (Print), ISSN 1848-6339 (Online).

3. Lucrări științifice de tip “conference proceedings” indexate ISI

1. **Haba S. A.,** Oancea Gheorghe, (2014), “*Smart Engineering Design of a V10 Engine Using Digital Prototyping Technologies*“, International Conference on Innovative Manufacturing Engineering Conference – ImanE 2014, Chisinau, Republica Moldova, Applied Mechanics and Materials Vol. 657 (2014) pp. 730-734,

doi:10.4028/www.scientific.net/AMM.657.730, Trans Tech Publications, Switzerland;

2. **Haba, S. A.**, Oancea Gheorghe, (2013), “*Thermal Expansion Analysis of the Complex Body Assemblies*”, Applied Mechanics and Materials Vol. 309 (2013) p. 162-169, doi:10.4028/www.scientific.net/AMM.309.162, Trans Tech Publications, Switzerland;
3. **Haba, S. A.**, Oancea, Gh., (2010), “*Automatic Obtaining of Engine Block in AutoCAD Environment*”, Latest Trends on Engineering Mechanics, Structures, Engineering Geology, 3rd WSEAS International Conference on Engineering Mechanics, Structures, Engineering Geology EMESEG 2010, Corfu Island, Greece, July 22-24, 2010, pp. 157-161 (ISBN 978-960-474-203-5), <http://www.wseas.us/EMEGEO-24>;
4. **Haba, S. A.**, Oancea Gheorghe, (2012), “*Virtual assembling of an engine block using CATIA environment*”, International Conference on Computing and Solutions in Manufacturing Engineering – CoSME 2012, Academic Journal of Manufacturing Engineering, Vol.10, Issue 3/2012, p.74-79, Braşov, România;
5. **Haba, S. A.**, Oancea Gh., (2011), “*Virtual Manufacturing of Cylinder Casing*”, International Conference on Manufacturing Science and Education – MSE 2011, Vol.I, p.109-112, ISSN 1843-2522, Sibiu, România;
6. **Haba, S. A.**, Oancea Gheorghe, (2011), “*Data Exchange Software Module Between AutoCAD and CATIA Environments*”, International Conference on Manufacturing Science and Education – MSE 2011, ISSN 1843-2522, Vol.I, p.113-116, Sibiu, România;
7. Oancea, Gh., **Haba, S. A.**, “*Software Tool Used in CAPP/CAM Systems for Rotational Parts*”, Scientific Bulletin Series C: Fascicle Mechanics, Tribology, Machine Manufacturing Technology, Vol. 30, (1026): 75-78, ISSN 1224-3264, Baia Mare, România.

**4. Articole in extenso in Reviste/Proceedings nationale/internationale
neindexate**

1. Manolescu, A., Oancea, Gh., **Haba, S. A.**, (2011), “*Centre-Drilling Optimization of Rotational Parts Using Reverse Engineering Techniques*”, RECENT RESEARCHES in COMPUTATIONAL INTELLIGENCE and INFORMATION SECURITY. 10th WSEAS International Conference on

5. Lucrări în curs de publicare

Capitol de carte:

2. Haba, S. A., Oancea Gheorghe, (2022), "Study on Design and Manufacturing of an Engine Block Using Digital Tools", chapter in the research book "Computational Design and Digital Manufacturing" to the book series of "Management and Industrial Engineering", DOI: 10.1007/978-3-031-21167-6, (<https://www.springer.com/series/11690>).

6. Brevete de invenții internaționale:

1. brevet în calitate de coautor (contributie 50%), cesionar [Lisa Draexlmaier GmbH](#), cu aplicabilitate în Germania, USA și China: „*Rotation damper with constant friction coefficient*”, [DE102017104250B3](#), [US10378608B2](#), [CN108374860B](#);
2. brevet în calitate de unic autor, cesionar [Lisa Draexlmaier GmbH](#), cu aplicabilitate în Germania: “*Device for extending and retracting at least one sun visor in a motor vehicle*”, [DE102017119878A1](#), (în curs de brevetare);
3. brevet în calitate de unic autor, cesionar [Lisa Draexlmaier GmbH](#), cu aplicabilitate în Germania: “*Control element for a vehicle interior*”, [DE102018103350A1](#), (în curs de brevetare);
4. brevet în calitate de coautor (contributie 50%), cesionar [Lisa Draexlmaier GmbH](#), cu aplicabilitate în Anglia: “*Shade arrangements for a window of a vehicle*”, [GB2586579A](#), (în curs de brevetare);
5. brevet în calitate de unic autor, cesionar [Lisa Draexlmaier GmbH](#), cu aplicabilitate în Germania: “*Control device and method for controlling at least one actuation unit in a motor vehicle*”, [DE102018100887A1](#), (în curs de brevetare).

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