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Habilitation thesis title: Research on the performance of motor vehicles, in relation to the specific requirements of active safety and the reduction of fuel consumption, respectively polluting emissions.

Domain: Automotive Engineering

PUBLICATIONS LIST

RELEVANT PAPERS

1. **Beleş Horia**, Vesselenyi Tiberiu, Rus Alexandru, Mitran Tudor, Scurt Florin Bogdan, Tolea Bogdan Adrian. *Driver Drowsiness Multi-Method Detection for Vehicles with Autonomous Driving Functions*. MDPI, Sensors 2024, 24(5), 1541, Special Issue "Intelligent Sensors for Smart and Autonomous Vehicles", DOI: <https://doi.org/10.3390/s24051541>, Published: 24 FEB 2024, eISSN: 1424-8220, Journal Impact Factor (2022): 3.9. Q2 – yellow zone. Web of Science: <https://1710qj8pf-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:001182981900001>.
2. **Beleş Horia**, Scurt Florin Bogdan, Tolea Bogdan Adrian, Mitran Tudor, Teţ Vlad Imre. *Particularities regarding the design and conception of a bodywork superstructure intended for the transportation of perishable goods*. IOP Conference Series: Materials Science and Engineering, Volume 1303, Economicity, Safety and Reliability for Motor Vehicles Congress (and SIAR International Automotive and Transport Engineering Congress) 02/11/2023 - 04/11/2023 Bucharest, Romania. DOI 10.1088/1757-899X/1303/1/012055. Crossref: <https://iopscience.iop.org/article/10.1088/1757-899X/1303/1/012055>.
3. Scurt Florin Bogdan, **Beleş Horia**, Vesselenyi Tiberiu, Csokmai Lehel. *Driver alertness monitoring system in the context of safety increasing and sustainable energy use*. Cognitive Sustainability, Mar 2023, Volume 2, Nr. 1, ISSN 2939-5240, Budapest, Hungary. Published: 2023-03-31. DOI: <https://doi.org/10.55343/CogSust.49>. Crossref: <https://cogsust.com/index.php/real/article/view/49>.
4. **Beleş Horia**, Tuşinean Adrian, Mitran Tudor, Scurt Florin Bogdan. *Research regarding the development of the combustion chamber of internal combustion engines with opposite pistons*. MDPI, Machines Journal, Special Issue "Internal Combustion Engine and Vehicles: Present Situation and Prospects", Volume 11, Issue 2, Article Number: 309, DOI: 10.3390/machines11020309, Published: FEB 2023, eISSN: 2075-1702, Journal Impact Factor (2021): 2.899. Q3 – grey zone. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000940662800001>.
5. Tolea Bogdan Adrian, Radu Alexandru Ionuţ, **Beleş Horia**, Dragomir George, Moca Sorin. *Study of a car-to-pedestrian collision in case of vehicle's post-impact braking*. SIAR International Congress of Automotive and Transport Engineering: Science and Management of Automotive and Transportation Engineering SMAT 2019: The 30th SIAR International Congress of Automotive and Transport Engineering, pages 375-382. DOI: https://doi.org/10.1007/978-3-030-32564-0_44. Print ISBN: 978-3-030-32563-3. Online ISBN: 978-3-030-32564-0. Publisher: Springer, Cham. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000528526600044>.
6. **Beleş Horia**, Tolea Bogdan Adrian, Crişan George Florin, Dogar Claudiu Alexandru, Ciota-chiev Vlad Vasile. *The assessment of pedestrian's head injury risk at the contact with the vehicle's hood*. Annual Session of Scientific Papers "IMT ORADEA 2019" 30–31 May 2019, Oradea, Felix SPA, Romania. IOP Conf. Series: Materials Science and Engineering 568 (2019) 012095, Pages: 396-400, IOP Publishing, DOI:10.1088/1757-899X/568/1/012095. Scopus: https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-85073454280&origin=resultslist&sort=plf-f&src=s&st1=Beles+H*&sid=a61d21aa86a0e3fce277f6cec44ef9d0&sot=b&sdt=b&sl=21&s=AUTHOR-NAME%28Beles+H*%29&relpos=1&citeCnt=2&searchTerm=.
7. Tuşinean Adrian, Hofbauer Peter, **Beleş Horia**, Radu Sebastian. *Considerations on the gas exchange process in internal combustion engines with opposite pistons*. Ingineria Automobilului, Issue: 50, Pages: 15-18, Published: MAR 2019. Publisher: Soc Automotive Engineers Romania, Bucuresti, Romania, ISSN: 1842-4074. Journal Impact Factor < 0.1. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000486368200007>.
8. Tolea Bogdan, Radu Alexandru Ionuţ, **Beleş Horia**, Antonya Csaba. *Influence of the geometric parameters of the vehicle frontal profile on the pedestrian's head accelerations in case of accidents*. International Journal of Automotive Technology, Volume: 19, Issue: 1, Pages: 85-98, DOI: 10.1007/s12239-018-0009-0, Published: FEB 2018. Publisher: Korean Soc Automotive Engineers-KSAE, South Korea, ISSN: 1229-9138, eISSN: 1976-3832. Journal Impact Factor (2022): 1.6. Q4 – white zone. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000412188100009>.

9. **Beleş Horia**, Rus Alexandru, Dragomir George, Mitran Tudor, Truşcă Daniel, Ţolea Bogdan. *Researches regarding the continuous improvement of the abs (anti-lock braking system) operation for the passenger cars*. Annals of DAAAM and Proceedings of the International DAAAM Symposium, Volume 2015-January, 2015, Pages: 196-205. 26th DAAAM International Symposium on Intelligent Manufacturing and Automation, DAAAM 2015, University of Zadar, Croatia, 21 October 2015 through 24 October 2015, Code 123540. Publisher: Danube Adria Association for Automation and Manufacturing, DAAAM, ISSN: 17269679, ISBN: 978-390273407-5. DOI: 10.2507/26th.daaam.proceedings.027. Scopus: https://www-scopus-com.am.e-nformation.ro/record/display.uri?eid=2-s2.0-84987653182&origin=resultslist&sort=plf-f&src=s&st1=Beles+H*&sid=a61d21aa86a0e3fce277f6cec44ef9d0&sot=b&sdt=b&sl=21&s=AUTHOR-NAME%28Beles+H*%29&relpos=6&citeCnt=3&searchTerm=
10. Chioreanu Nicolae, Mitran Tudor, Rus Alexandru, **Beleş Horia**. *Numerical simulation of thermal-hydraulic generators running in a single regime*. Central European Journal of Engineering, Volume 4, Issue 2, June 2014, Pages: 119-124. DOI: 10.2478/s13531-013-0145-2. Published: Jun 2014. Publisher: De Gruyter Poland. ISSN: 2391-5439. Journal Impact Factor (2022): 1.7. Web of Science: <https://1710qjm8n-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000218399600004>.

PHD THESIS

Title: *Study related to passenger cars active safety improvement in order to reduce accidents with serious consequences*. Transilvania University of Braşov, PhD in Mechanical Engineering, since march 2008, confirmed by the Education, Research and Youth Ministry Act no. 3439 / 12.03.2008.

PATENTS

BOOKS / BOOK CHAPTERS

1. **Beleş Horia**, Ţurea Nicolae, Scurt Florin Bogdan, Tuşinean Adrian Nicolae. *Tehnici și echipamente de diagnosticare a autovehiculelor*. Ediția I. Editura Universității din Oradea, 2024, 291 pg., format electronic pe CD, ISBN 978-606-10-2312-7.
2. **Beleş Horia**, Ţurea Nicolae. *Autorizarea, organizarea și funcționarea unităților service auto și a stațiilor de inspecție tehnică periodică pentru autovehicule*. Ediția I. Editura Universității din Oradea, 2024, 160 pg., format electronic pe CD, ISBN 978-606-10-2313-4.
3. **Beleş Horia**, Ţurea Nicolae, Scurt Florin Bogdan, Tuşinean Adrian Nicolae. *Tehnici și echipamente de diagnosticare a autovehiculelor. Îndrumar de laborator*. Ediția I. Editura Universității din Oradea, 2024, 130 pg., format electronic pe CD, ISBN 978-606-10-2314-1.
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5. **Beleş Horia**, Bâlc Gavril, Gaşpar Ferencz. *Tehnologii de Fabricare, Reparare și Asamblare a Autovehiculelor, Îndrumar de laborator, Ediția I*. Editura Universității din Oradea, 2020, 206 pg., ISBN 978-606-10-2084-3.
6. **Beleş Horia**, Enache Valeriu. *Echipament electric și electronic pentru autovehicule*. Editura Universității din Oradea, 2013, 150 pg., ISBN 978-606-10-0982-4.
7. **Beleş Horia**, Şoica Adrian. *Siguranța activă și pasivă a autovehiculelor*. Editura Universității din Oradea, 2011, 228 pg., ISBN 978-606-10-0651-9.
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9. Blaga Vasile, **Beleş Horia**, Dragomir George, Vlad Ioan, Vlad Mariana, Timar Adrian. *The Theoretical Contribution Modelling Gasoline Injection at Engines with Spark Lighting*, Chapter 05 in DAAAM International Scientific Book 2009, B. Katalinic (Ed.), ISBN 3-901509-69-0, ISSN 1726-9687, Vienna, Austria DOI: 10.2507/daaam.scibook.2008.05, Book ISI, pp 043-058. https://www.daaam.info/Downloads/Pdfs/science_books_pdf/2008/Sc_Book_2008-005.pdf. CrossRef: https://search.crossref.org/?from_ui=&q=The+Theoretical+Contribution+Modelling+Gasoline+Injection+at+Engines+with+Spark+Lighting.

JOURNAL ARTICLES

1. **Beleş Horia**, Vesselenyi Tiberiu, Rus Alexandru, Mitran Tudor, Scurt Florin Bogdan, Tolea Bogdan Adrian. *Driver Drowsiness Multi-Method Detection for Vehicles with Autonomous Driving Functions*. MDPI, Sensors 2024, 24(5), 1541, Special Issue "Intelligent Sensors for Smart and Autonomous Vehicles", DOI: <https://doi.org/10.3390/s24051541>, Published: 24 FEB 2024, eISSN: 1424-8220, Journal Impact Factor (2022): 3.9. Q2 – yellow zone. Web of Science: <https://1710qj8pf-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:001182981900001>.

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3. Țolea Bogdan Adrian, Radu Alexandru Ionuț, **Beleş Horia**, Dragomir George, Moca Sorin. *Study of a car-to-pedestrian collision in case of vehicle's post-impact braking*. SIAR International Congress of Automotive and Transport Engineering: Science and Management of Automotive and Transportation Engineering SMAT 2019: The 30th SIAR International Congress of Automotive and Transport Engineering, pages 375-382. DOI: https://doi.org/10.1007/978-3-030-32564-0_44. Print ISBN: 978-3-030-32563-3. Online ISBN: 978-3-030-32564-0. Publisher: Springer, Cham. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000528526600044>.
4. Țolea Bogdan, Radu Alexandru Ionuț, **Beleş Horia**. *The overlap influence in case of a car-to-pedestrian accident*. International Congress of Automotive and Transport Engineering AMMA2018: Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), pages 820-827. DOI: https://doi.org/10.1007/978-3-030-32564-0_44. Print ISBN: 978-3-030-32563-3. Online ISBN: 978-3-030-32564-0. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000578264900096>.
5. Tuşinean Adrian, Hofbauer Peter, **Beleş Horia**, Mitran Tudor. *The simulation of the gas exchange process for the internal combustion engines with opposite pistons*. Ingineria Automobilului, Issue: 52, Pages: 19-23, Published: SEP 2019. Publisher: Soc Automotive Engineers Romania, Bucuresti, Romania, ISSN: 1842-4074. Journal Impact Factor < 0.1. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000486369100009>.
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7. Mitran Tudor, Blaga Vasile, **Beleş Horia**, Dragomir George. *The calculus of the technical-economic parameters of a spark-ignited direct injection engine*. Ingineria Automobilului, Issue: 48, Pages: 12-14, Published: SEP 2018. Publisher: Soc Automotive Engineers Romania, Bucuresti, 00000, Romania, ISSN: 1842-4074. Journal Impact Factor < 0.1. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000458322500005>.
8. Țolea Bogdan Adrian, Radu Ionuț, Dima Dragoș Sorin, **Beleş Horia**. *The influence of the suspension upon the axle weight distribution for heavy trucks*. Ingineria Automobilului, Issue: 47, Pages: 23-26, Published: JUN 2018. Publisher: Soc Automotive Engineers Romania, Bucuresti, 00000, Romania, ISSN: 1842-4074. Journal Impact Factor < 0.1. Web of Science: <https://1710q2bys-y-https-www-webofscience-com.z.e-nformation.ro/wos/woscc/full-record/WOS:000450557500006>.
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1. **Beleş Horia**, Scurt Florin Bogdan, Țolea Bogdan Adrian, Mitran Tudor, Țeț Vlad Imre. *Particularities regarding the design and conception of a bodywork superstructure intended for the transportation of perishable goods*. IOP Conference Series: Materials Science and Engineering, Volume 1303, Economicity, Safety and Reliability for Motor Vehicles Congress (and SIAR International Automotive and Transport Engineering Congress) 02/11/2023 - 04/11/2023 Bucharest, Romania. DOI 10.1088/1757-899X/1303/1/012055. Crossref: <https://iopscience.iop.org/article/10.1088/1757-899X/1303/1/012055>.
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4. Țolea Bogdan Adrian, **Beleş Horia**, Radu Alexandru Ionuț, Scurt Florin, Dragomir George. *The assessment of pedestrian's head injury risk at the impact with the vehicle's windshield*. IOP Conference Series: Materials Science and Engineering, Volume 1256, The Annual Session Of Scientific Papers (IMT Oradea 2022) 7th-8th July 2022, Oradea, Romania. Published under licence by IOP Publishing Ltd. DOI: 10.1088/1757-899X/1256/1/012042. Crossref: <https://iopscience.iop.org/article/10.1088/1757-899X/1256/1/012042/pdf>.
5. Blaga Vasile, Mitran Tudor, Rus Alexandru, **Beleş Horia**, Dragomir George. *A comparative study of calculated and experimental indicated diagrams of a S.I. Engine*. IOP Conference Series: Materials Science and Engineering, Volume 1220, The XXXI-st SIAR International Congress of Auto-motive and Transport Engineering "Automotive and Integrated Transport Systems" (AITS 2021), 28th-30th October 2021, Chisinau, Republic of Moldova, Pages: 148-160. Published under licence by IOP Publishing Ltd DOI: 10.1088/1757-899X/1220/1/012016. ISSN: 1757-8981. Crossref: <https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012016>.
6. Scurt Florin Bogdan, Vesselenyi Tiberiu, Țarcă Radu Cătălin, **Beleş Horia**, Dragomir George. *Autonomous vehicles: classification, technology and evolution*. IOP Conference Series: Materials Science and Engineering, Volume 1169, The Annual Session Of Scientific Papers (IMT Oradea 2021) 27th-28th May 2021, Oradea, Romania. Pages: 247-254. Published under licence by IOP Publishing Ltd. DOI: doi:10.1088/1757-899X/1169/1/012032. Crossref: <https://iopscience.iop.org/article/10.1088/1757-899X/1169/1/012032>.
7. **Beleş Horia**, Țolea Bogdan Adrian, Crișan George Florin, Dogar Claudiu Alexandru, Ciotachiev Vlad Vasile. *The assessment of pedestrian's head injury risk at the contact with the vehicle's hood*. Annual Session of Scientific

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 9. Popa Virgil, **Beleş Horia**, Tzolea Bogdan, Dragomir George, Mitran Tudor. *Studies Regarding Occupant Kinematics in the Vehicle at the Frontal and Rear Impact*. Applied Mechanics and Materials, Vol. 822, Pages: 512-522, Jan. 2016. Publisher: Trans Tech Publications, ISSN print: 1660-9336, ISSN web: 1662-7482, ISBN: 978-3-03835-703-2, DOI: <https://doi.org/10.4028/www.scientific.net/AMM.822.512>; <https://www.scientific.net/AMM.822.512>; CrossRef: <https://search.crossref.org/?q=beles+h&page=4>.
 10. Mitran Tudor, Chioreanu Nicolae, **Beleş Horia**, Rus Alexandru, Polojințef-Corbu Nicolae. *The Calculation of the Pressure Losses in the Hydraulic Circuit of a Single Regime Operating Thermal-Hydraulic Generator*. Applied Mechanics and Materials, Vol. 822, Pages: 305-310, Jan. 2016. Publisher: Trans Tech Publications, ISSN print: 1660-9336, ISSN web: 1662-7482, ISBN: 978-3-03835-703-2, DOI: <https://doi.org/10.4028/www.scientific.net/AMM.822.305> <https://www.scientific.net/AMM.822.305>; CrossRef: <https://search.crossref.org/?q=beles+h&page=3>.
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