

Anexa nr. 17 – COMISIA INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ

STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR
DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE
– DEZVOLTARE

| Criterii minimale și obligatorii | | | |
|---|-------|------------|--------------|
| Domeniul de activitate | | Indicatori | Conferențiar |
| Activitatea didactică / profesională (A1) | A1.1 | N1 | 2 |
| | | N1.1 | - |
| | | N1.3 | 1 |
| | A1.2 | N2 | 3 |
| | | N2.1 | 1 |
| Activitatea de cercetare (A2) | A2.1+ | P1+P2 | 5 |
| | | A2.3 | P1 |
| | A2.2 | N3 | 8 |
| | | N3.1 | 3 |
| | A2.4+ | N4 | 1 |
| | | A2.5 | N4.3 |
| Recunoașterea impactului activității (A3) | A3.1 | S1+S2 | 10 |
| | A3.2 | N5 | 5 |
| | A3.3 | C | 10 |

Unde:

$P1 = P1.1 + P1.2 + P1.3 + P1.4$; $P2 = P2.1 + P2.2$;

$N1 = N1.1 + N1.2$; $N2 = N2.1 + N2.2 + N2.3$; $N3 = N3.1 + N3.2$;

$N4 = N4.1 + N4.2 + N4.3 + N4.4$

Criterii minimale și obligatorii – Șef lucr. dr. ing. Radu ȚĂRULESCU

| Domeniul de activitate | | Indicatori | Conferențiar |
|---|-------|------------|--------------|
| Activitatea didactică / profesională (A1) | A1.1 | N1 | 6 |
| | | N1.1 | 3 |
| | | N1.3 | 1 |
| | A1.2 | N2 | 5 |
| | | N2.1 | 2 |
| Activitatea de cercetare (A2) | A2.1+ | P1+P2 | 5,15 |
| | A2.3 | P1 | 5,15 |
| | A2.2 | N3 | 14 |
| | | N3.1 | 5 |
| | A2.4+ | N4 | 4 |
| | A2.5 | N4.3 | 3 |
| Recunoașterea impactului activității (A3) | A3.1 | S1+S2 | 31,74 |
| | A3.2 | N5 | 36 |
| | A3.3 | C | 18,37 |



| Tipul activităților | Activitate | Punctaj |
|---|--|----------|
| Activitatea didactică și profesională - DID (A1) | | |
| A1.1 Manuale suport de curs (conform fișei disciplinei de concurs) | | |
| N1.1 Format tipărit/electronic (min 100 pag.) Coordonator/prim autor | 1. Țârulescu R., Țârulescu S., Bazele sistemelor automate, (Versiune electronică CD), 2019, Editura Universității Transilvania din Brașov, ISBN 978-606-19-1119-6. https://search.worldcat.org/title/1288699110 | 1 |
| | 2. Țârulescu R., Țârulescu S., Ispas N., Sensors and control systems for vehicles, (Versiune electronică CD), Editura Universității Transilvania din Brașov, 2019, ISBN 978-606-19-1127-1. https://search.worldcat.org/title/1288698416 | 1 |
| | Subtotal N1.1 | 2 |
| N1.2. Format tipărit/electronic (min 100 pag.) Co-autor | 1. Țârulescu S., Țârulescu R., Țârulescu N., Metodica si aparatura pentru analiza datelor de trafic rutier, GlobeEdit Publishing, Saarbrucken, Germany, 2020, ISBN 978-613-9-41804-6. https://search.worldcat.org/title/1155529221?oclcNum=1155529221 | 1 |
| | 2. Ungureanu V.B., Costiuc L., Țârulescu R., Mecanica fluidelor și mașini hidraulice. Curs și lucrări aplicative (Versiune electronică CD), decembrie 2015, Editura Universității Transilvania din Brașov ISBN 978-606-19-0696-3. https://search.worldcat.org/title/1288696813 | 1 |
| | 3. Ungureanu V. B., Țârulescu R., Crăciun O., Mașini și aparate fluidice (Versiune electronică CD), decembrie 2012, Editura Universității Transilvania din Brașov ISBN 978-606-19-0143-2. https://search.worldcat.org/title/933403319 | 1 |
| | Subtotal N1.2 | 3 |



| | | |
|---|--|---|
| N1.3 Format electronic disponibil pe platforma universității/departamentului (autor) | 1. Țârulescu, R., Mecatronica Autovehiculelor, Curs în format electronic disponibil pe platforma E-learning a Universității Transilvania din Brașov, pentru specializarea AR anul 4. https://elearning.unitbv.ro/pluginfile.php/367963/mod_resource/content/2/AR_Curs%20MECATRONICA%20AUTO_Radu%20TARULESCU.pdf | 1 |
| | Subtotal N1.3 | 1 |
| A1.2 Material didactic/dezvoltare laboratoare, aplicații | | |
| N2.1 Standuri laborator (construcție, modernizări) | 1. Stand de cercetare și didactic - Autovehicul electric E-Smart – Autovehicule Electrice și Hibride / Mecatronica Autovehiculelor / Bazele Ingineriei Autovehiculelor – Vehicul cu numărul de înmatriculare BV16ATR, Consolă de programare de tip CURTIS 1314, Software pentru programare 1314 PC Programming Station OEM, Sistem portabil pentru încărcarea parțială sau totală a acumulatorilor. https://icdt.unitbv.ro/en/research-centres/high-tech-products-for-automotives/products-and-services-with-innovative-potential.html | 1 |
| | 2. Stand de laborator didactic – Sisteme senzoriale ale autovehiculelor / Energii regenerabile – echipamente: Sistem de răcire pentru habitacul cu module Peltier; Sistem de achiziție și analiză de date MultiLogPRO; Senzor ultrasonic DT020-1; Senzori ultrasonici Parallax PING; Senzori acustici; Senzori tactili; Senzori de temperatură; Giroscop; Sisteme fotovoltaice; Multimetre digitale CAT III; Truse cu rezistori, condensatori, tranzistori, diode, potențiometre, motoare electrice, plăci de dezvoltare breadboard. https://mecanica.unitbv.ro/ro/despre/departamentul-autovehicule-si-transporturi.html | 1 |
| | Subtotal N2.1 | 2 |
| N2.2 Îndrumar laborator/carte | 1. Țârulescu R., Ispas N., Bazele ingineriei autovehiculelor. Aplicații, (Versiune electronică CD), 2019, Editura Universității Transilvania din Brașov, ISBN 978-606-19-1120-2. https://search.worldcat.org/title/1288696360 | 1 |

| | | |
|---|---|----------|
| aplicații format tipărit sau electronic (autor, co-autor) | 2. Țârulescu R., Țârulescu S., Vehicle mechatronics, (Versiune electronică CD), Editura Universității Transilvania din Brașov, 2019, ISBN 978-606-19-1128-8. https://search.worldcat.org/title/1288691703 | 1 |
| | Subtotal N2.2 | 2 |
| N2.3 Aplicație informatică educațională | 1. Țârulescu R., Ciupală C., Ciupală G., Condruș R., Aplicație informatică educațională Bac Mate, platforma educațională Zece Plus, 2013, ISBN: 978-606-93324-1-2 https://portokal.ro/cd-bacalaureat-matematica.html | 1 |
| | Subtotal N2.3 | 1 |
| Subtotal N2 | | 5 |
| Activitatea de cercetare științifică, dezvoltare tehnologică și inovare- CDI (A2) | | |
| A2.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS), unde n = nr. de autori și F1 Factorul de impact | | |
| Autor corespondent / prim autor Pentru n ≤ 3 [P1.1 = 2 x (0,2+FI)] Pentru n ≥ 4 [P1.2 = 2x3 x (0,2+FI)/n] | 1. Țârulescu, R., Țârulescu, S., Leahu, Cl., Luca-Motoc, D. (2020). Marine Ship Equipped with Air Turbine – Electric Generator Aggregate, The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, Cham. https://www.webofscience.com/wos/woscc/full-record/WOS:000528526600022 | 0,3 |
| | 2. Țârulescu, R., Țârulescu, S., Soica, A. (2019). Optimization of Cooling System for Internal Combustion Engines., Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018). AMMA2018 2018. Proceedings in Automotive Engineering. Springer, Cham. https://www.webofscience.com/wos/woscc/full-record/WOS:000578264900062 | 0,4 |
| | 3. Țârulescu R., Țârulescu S., Șoica A., Leahu C. I., Downforce variation dependence of angle of incidence modification for the rear wing of high speed vehicles, IOP Conference Series: Materials Science and Engineering, Volume 252, Conference 1, indexare ISI | 0,3 |

| | | |
|----------|--|----------|
| | 2018.. https://www.webofscience.com/wos/woscc/full-record/WOS:000419817200025 | |
| | 3. Țârulescu R., Țârulescu S., Battery Management System of E-Smart Vehicle, 12th International Congress of Automotive and Transport Engineering, Springer International Publishing Switzerland, ISBN 978-3-319-45446-7, pp: 517-524, 2017. https://www.webofscience.com/wos/woscc/full-record/WOS:000390821400057 | 0,4 |
| | 4. Țârulescu R., Țârulescu S., Electronic control systems of E-Smart vehicle, 12th International Congress of Automotive and Transport Engineering, Springer International Publishing Switzerland, ISBN 978-3-319-45446-7, pp: 509-516, 2017. https://www.webofscience.com/wos/woscc/full-record/WOS:000390821400056 | 0,4 |
| | 5. Țârulescu R., Țârulescu S., Urban transportation solutions for the CO ₂ emissions reduction contributions, CONAT 2016 International Congress of Automotive and Transport Engineering, Springer International Publishing Switzerland, ISBN 978-3-319-45446-7, pp: 442-450, 2017. https://www.webofscience.com/wos/woscc/full-record/WOS:000390821400049 | 0,4 |
| | 6. Țârulescu R., Energy recovery for a road vehicle, 7th International Conference on Advanced Concepts in Mechanical Engineering (Iasi - ACME 2016), IOP Conference Series: Materials Science and Engineering Volume 147, Number 1, ISSN.1757-899X, 2016. https://www.webofscience.com/wos/woscc/full-record/WOS:000390720200132 | 0,4 |
| | 7. Țârulescu R., Țârulescu S., Measurement methods for the path deviation of mobile robots, Electronics, Computers and Artificial Intelligence – ECAI 2015, Vol. 7 – No. 3, pag. 91-94, IEEE Catalog Number CFP1527U, 2015, ISSN – 1843–2115. https://www.webofscience.com/wos/woscc/full-record/WOS:000370971100124 | 0,4 |
| | Subtotal P1.1 + P1.2 | 3 |
| Co-autor | 1. Leahu C., Năstăsoiu M., Țârulescu R., Some Considerations on Optimal Placement of the Arm Hydraulic Cylinder to an Excavator, The 30th SIAR International Congress of Automotive and Transport | 0,2 |

| | | |
|--|--|------|
| <p>Pentru $n \leq 3$ [P1.3 = $0,2+FI$]</p> <p>Pentru $n \geq 4$ [P1.4 = $3 \times (0,2+FI)/n$]</p> | <p>Engineering: Science and Management of Automotive and Transportation Engineering, Springer International Publishing, pp 88-94, 2020.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000528526600011</p> | |
| | <p>2. Țârulescu, S., Țârulescu, R., Leahu, Cl., On-Board Measurement of Emissions from Spark Ignition Engine Vehicle for Urban Routes, The 30th SIAR International Congress of Automotive and Transport Engineering. SMAT 2019. Springer, Cham.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000528526600029</p> | 0,2 |
| | <p>3. Țârulescu S., Țârulescu R., Țoica A., Leahu C. I., Smart Transportation CO2 Emission Reduction Strategies, IOP Conference Series: Materials Science and Engineering, Volume 252, Conference 1, indexare ISI 2018.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000419817200051</p> | 0,15 |
| | <p>4. Leahu, Cl., Radu, S., Țârulescu, S., Țârulescu, R., Usage of Electric Motors/Generators for Engines Supercharging in Order to Increase the Efficiency of Exhaust Gas Energy Recovery, Proceedings of the 4th International Congress of Automotive and Transport Engineering AMMA 2018. Proceedings in Automotive Engineering. Springer, Cham.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000578264900064</p> | 0,15 |
| | <p>5. Luca Motoc, D., Țârulescu, R., Țârulescu, S., Țoica, A., Designing Hybrid BF/FF Epoxy Based Composites with Tailorable Dielectric Properties. Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018). AMMA2018 2018. Proceedings in Automotive Engineering. Springer, Cham.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000578264900040</p> | 0,15 |
| | <p>6. Țârulescu S., Țârulescu R., Researches on Combustion Quality for a Single Cylinder Diesel Engine, 12th International Congress of Automotive and Transport Engineering (CONAT), DOI: 10.1007/978-</p> | 0.2 |



| | | |
|--|--|-----|
| | 3-319-45447-4_48, ISBN:978-3-319-45447-4, indexare ISI 2017. https://www.webofscience.com/wos/woscc/full-record/WOS:000390821400048 | |
| | 7. Țârulescu S., Țârulescu R., Transportation urban solutions for the CO ₂ emissions reduction contributions, International Congress of Automotive and Transport Engineering, Springer International Publishing Switzerland, ISBN 978-3-319-45446-7, 2017. https://www.webofscience.com/wos/woscc/full-record/WOS:000390821400049 | 0,2 |
| | 8. Leahu Cl., Țârulescu S., Țârulescu R., The exhaust gas temperature control through an adequate thermal management of the engine, IOP Conference Series: Materials Science and Engineering, Volume 444, Automotives. Engine and Transmission. Road Safety, doi:10.1088/1757-899X/444/7/072016, 2018. https://www.webofscience.com/wos/woscc/full-record/WOS:000467443600123 | 0,2 |
| | 9. Țârulescu S., Țârulescu R., Șoica A., Pollution level produced at engine start for a hybrid vehicle, European Automotive Congress, EAEC-ESFA'15 006B – FEP, November 25 - 27, 2015, ISSN 2067-1083, p 54-61, Volume21, Issue4, Pages 143-149, Published DEC 2015 Ingineria Autovehiculului, FI=0,1 https://www.webofscience.com/wos/woscc/full-record/WOS:000434566500005 | 0,3 |
| | 10. Țârulescu, S., Țârulescu, R., Șoica, A., Approximation of the carbon monoxide concentration resulting from the road traffic using experimental measurements, Symposium "Intelligent Manufacturing and Automation: Focus on Theory, Practice and Education"; Vienna, Austria, 25 November 2009, ISSN: 17269679, ISBN: 978-390150970-4. https://www.webofscience.com/wos/woscc/full-record/WOS:000282335600933 | 0,2 |
| | 11. Țârulescu S., Țârulescu R., Soica A., Mathematical model of pollution compounds calculus in function of traffic capacity from urban areas, Proceedings of the 1st International Conference on Multivariate Analysis and its Application in Science and Engineering (MAASE 08), Istanbul, Turcia, 27-30 mai 2008, ISSN: 1790-5117, | 0,2 |

| | | |
|---|--|-------------|
| | ISBN: 978-960-6766-65-7, ISI Thomson Reuters. https://www.webofscience.com/wos/woscc/full-record/WOS:000257948800018 | |
| | Subtotal P1.3+P1.4 | 2,15 |
| | Subtotal P1 | 5,15 |
| A2.2. Articole și publicații științifice BDI neincluse la A2.1 | | |
| <p>Autor corespondent/prim autor</p> <p>N3.1 = număr</p> | 1. Tarulescu, R., Tarulescu, S., Chiru, A., Covaciu, D., Butnariu, S.L., Szigeti, R., Niculescu M., Study on the implementation of an efficient rural public transport system, International Congress of Automotive and Transport Engineering, CONAT, Springer Nature, 2024. https://link.springer.com/chapter/10.1007/978-3-031-77635-9_5 | |
| | 2. Țârulescu R., Țârulescu S., Leahu C., Olaru M., Photovoltaic system for E-Smart electric vehicle, IOP Conference Series: Materials Science and Engineering, Volume 1220, Issue 1, IOP Publishing, 2022. https://iopscience.iop.org/article/10.1088/1757-899X/1220/1/012009/meta | 1 |
| | 3. Țârulescu R., Olteanu C., Zamfira S., Variation of start acceleration for wheeled and tracked autonomus mini-vehicles, Applied Mechanics and Materials, ISSN: 1662-7482, Vol. 822, pp 299-304, Trans Tech Publications, Switzerland, 2016. https://www.scientific.net/AMM.822.299 | 1 |
| | 4. Țârulescu R., Olteanu C., Navigation system optimization for mobile robot Pro Bot 128, 5 th International Conference "Advanced Composite Materials Engineering" and The 3rd International Conference "Research & Innovation in Engineering" COMAT 2014, 16-17 October 2014, Brașov, ISBN 978-606-19-0411-2. http://aspekt.unitbv.ro/jspui/handle/123456789/552 | 1 |
| | 5. Țârulescu R., Benche V., Țârulescu S., The hydraulic scheme elaboration for the hydrostatic traction of the vehicles, The XXX ^{lst} "Caius Iacob" Conference on Fluid Mechanics and its Technical Applications, October 19-21, 2006 Brasov, Editura Universității Transilvania din Brașov, ISBN – 10: 973-635-831-3, ISBN – 13: 978-973-635-831-9. http://aspekt.unitbv.ro/jspui/handle/123456789/1470 | 1 |
| | Subtotal N3.1 | 5 |

| | | |
|------------------------------|--|---|
| Co-autor N3.2 = număr | 1. Tarulescu, S., Tarulescu, R., Soica, A., Covaciu, D., Leahu, C.I., Szigeti, R., Measures to reduce the environmental impact of transport proposed in SUMP for small cities, International Congress of Automotive and Transport Engineering, CONAT, Springer Nature, 2024. https://link.springer.com/chapter/10.1007/978-3-031-77631-1_4 | 1 |
| | 2. Tarulescu, S., Tarulescu, R., Soica, A., Chiru, A., Leahu, C.I., Szigeti, R., Evaluation and analysis of public transport services for county seat municipalities in Romania, International Congress of Automotive and Transport Engineering, CONAT, Springer Nature, 2024. https://link.springer.com/chapter/10.1007/978-3-031-77635-9_1 | 1 |
| | 3. Țârulescu S., Cofaru C., Țârulescu, R., Cold Engine's Operating Regime Influence over the Exhaust Emissions, Applied Mechanics and Materials, Vol. 822, ISSN: 1662-7482, 2016, https://www.scientific.net/AMM.822.219 | 1 |
| | 4. Țârulescu S., Țârulescu R., Leahu C.I., Optimizing Combustion in an Single Cylinder GDI SI Engine, Proceedings of the European Automotive Congress EAEC-ESFA 2015, Springer Cham Heidelberg New York Dordrecht London, ISBN 978-3-319-27275-7 ISBN 978-3-319-27276-4 (eBook), DOI 10.1007/978-3-319-27276-4, Library of Congress Control Number: 2015955888 p. 395-404, https://www.springerprofessional.de/en/optimizing-combustion-in-an-single-cylinder-gdi-si-engine/6888606 | 1 |
| | 5. Țârulescu, S. Țârulescu, R., Road traffic chemical pollution modeling system, The 11th International Congress on Automotive and Transport Engineering CONAT 2010, Volume IV-Advanced Transport Systems and Road Traffic, ISSN 2069-0401, 2010, http://aspekt.unitbv.ro/jspui/bitstream/123456789/127/1/CONAT20103017-Paper.pdf | 1 |
| | 6. Țârulescu, S. Țârulescu, R., A prediction model for urban air pollution in Brasov city, CAR 2011 International Automotive | 1 |



| | | |
|---|--|-----------|
| | Congress, Automotive Engineering and Environment, ISSN 1453 – 1100, https://go.fisita.com/store/papers/CAR2011/CAR2011-1185 | |
| | 7. Benche V., Ungureanu V., Țârulescu R., Țârulescu, S., The analysis of some hydraulic possibilities for energy recovery-stockage of the vehicles variable movement, Romanian Technical Sciences Academy, Modelling and Optimization in the Machines Building Field, Volume 1 , Editura ALMA MATER, Bacau, 2008, ISSN 1224-7480. http://aspekt.unitbv.ro/jspui/handle/123456789/1333 | 1 |
| | 8. Țârulescu S., Țârulescu R., The influence of the road traffic on noise pollution in urban areas, International Congress on Automotive CAR 2005-1043, 2 -4 November 2005, Pitești, Editura Universității din Pitești, ISBN 973-690-450-4. https://go.fisita.com/store/papers/CAR2005_FISITA/CAR20051043-FinalPaper | 1 |
| | 9. Țârulescu S., Țârulescu R., The interior and exterior noise analysis produced by the vehicles, International Congress on Automotive CAR 2005-1070, 2 -4 November 2005, Pitești, Editura Universității din Pitești, ISBN 973-690-450-4. https://go.fisita.com/store/papers/CAR2005_FISITA/CAR20051070-FinalPaper | 1 |
| | Subtotal N3.1 | 9 |
| Subtotal N3 | | 14 |
| A2.5 Monografii/cărți de specialitate, format tipărit/electronic (min. 100 pag.) | | |
| Coordonator/prim autor N4.3 = număr | 1. Țârulescu R., Țârulescu S., Mijloace de transport ecologice. Autobuze electrice și troleibuze, decembrie 2016, Editura Universității Transilvania din Brașov ISBN 978-606-19-0804-2, https://www.worldcat.org/oclc/1288690899 | 1 |
| | 2. Țârulescu R., Optimizarea configuratiei senzorilor utilizati la robotii mobili, GlobeEdit Publishing, Saarbrucken, Germany, 2016, ISBN 978-3-330-71350-5. https://my.globeedit.com/catalogue/details/gb/978-3-330-71350-5/optimizarea-configur%C8%9Biei-senzorilor-utiliza%C8%9Bi-la-robo%C8%9Bii-mobili | 1 |

| | | |
|---|---|----------|
| Coautor N4.4 = număr | 3. Țârulescu R., Crăciun O., Elemente de mecanica fluidelor și unele aplicații practice, decembrie 2009, Editura Universității Transilvania din Brașov ISBN 978-973-598-665-0. https://search.worldcat.org/title/895462453?oclcNum=895462453 | 1 |
| | Subtotal N4.3 | 3 |
| | 1. Ungureanu V. B., Țârulescu R., Crăciun O., Mașini și aparate fluidice, decembrie 2012, Editura Universității Transilvania din Brașov ISBN 978-606-19-0144-9. https://search.worldcat.org/title/1310201110 | 1 |
| | Subtotal N4.4 | 1 |
| Subtotal N4 | | 4 |
| Recunoașterea și impactul activității - RIA (A3) | | |
| A3.1 Atragere resurse financiare prin granturi/proiecte/contracte terți | | |
| Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională S1 = sumă echivalentă în mii Euro | 1. UNITA Starting Grant nr. 177, ERASMUS-EDU-2023-EUR-UNIV-1, 101124853, Issue: Renewable energy mixes and materials for a more sustainable world, 2024, „Renewable energy for transport vehicles”, project coordinator, 5000 euro https://univ-unita.eu/Sites/unita/en/Pagina/researchers#unita_for_research | 5 |
| Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/contracte terți | 1. Contract cu terți Unitbv, nr. 12215 din 18.09.2023, „Studiu pentru realizarea Planului de Mobilitate Urbană Durabilă pentru localitatea Negru Vodă”, perioada de desfășurare 20.09.2023 – 20.09.2024, 38391,78 lei (19195,89 lei avans +19195,89 lei lichidare), curs valutar mediu anual pentru 2024, 1Euro = 4.9747 Lei. https://www.unitbv.ro/biblioteca/1000 | 7,71 |
| | 2. Contract cu terți Unitbv, nr. 35 din 06.04.2023, „Studiu pentru realizarea Planului de Mobilitate Urbană Durabilă pentru localitatea | 1,36 |



| | | |
|-----------------------------------|--|------|
| S2 = sumă echivalentă în mii Euro | Cajvana”, perioada de desfășurare 12.04.2023 – 12.04.2024, 6748,5 lei , curs valutar mediu anual pentru 2023, 1Euro = 4.9465 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | |
| | 3. Contract cu terți Unitbv, nr. 7063 din 31.05.2023, „Studiu de trafic rutier pentru intersecția dintre Calea București și Strada Lacurilor”, Brașov, perioada de desfășurare 8.06.2023 – 8.07.2023, 3500 lei , curs valutar mediu anual pentru 2023, 1Euro = 4.9465 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,7 |
| | 4. Contract cu terți Unitbv, nr. 1181 din 2022, „Studiu privind realizarea Planului de Acțiuni pentru Climă și Energie”, perioada de desfășurare 2022, 1175 lei , curs valutar mediu anual pentru 2022, 1Euro = 4.9315 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,23 |
| | 5. Contract cu terți Unitbv, nr. 14979 din 2022, Servicii de expertiză externă-testare, analiză și consultanță tehnică în cadrul Proiectului Thematic Trail Trigger - Three T (Inițierea unor Trasee Tematice), perioada de desfășurare 2022, 10000 lei , curs valutar mediu anual pentru 2022, 1Euro = 4.9315 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 2,02 |
| | 6. Contract cu terți Unitbv, nr.7216 din 31.05.2022, „Studiu de oportunitate privind stabilirea modalității de gestiune a serviciului de transport public local de călători în Municipiul Mangalia”, perioada de desfășurare 6.06.2022 – 6.06.2023, 10000 lei , curs valutar mediu anual pentru 2022, 1Euro = 4.9315 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 2,02 |
| | 7. Contract cu terți Unitbv, nr. 3680 din 24.03.2022, „Studiu pentru realizarea Planului de Mobilitate Urbană Durabilă a orașului Nădlac”, perioada de desfășurare 31.03.2022 – 15.09.2022, 4000 lei , curs valutar mediu anual pentru 2022, 1Euro = 4.9315 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,81 |



| | | |
|--|---|------|
| | 8. Contract cu terți Unitbv, nr. 2741 din 2021, "Modelarea Traficului rutier pentru intersecțiile orașului Agnita", perioada de desfășurare 2021, 3836 lei , curs valutar mediu anual pentru 2021, 1Euro = 4.9204 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,76 |
| | 9. Contract cu terți Unitbv, nr. 666 din 22.01.2020, "Modernizarea transportului în municipiul Hunedoara prin investiții în transportul public ecologic – Coridorul Central", perioada de desfășurare 22.01.2020 – 20.02.2020, 1500 lei , curs valutar mediu anual pentru 2020, 1Euro = 4.8371 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,31 |
| | 10. Contract cu terți Unitbv, nr. 667 din 22.01.2020, "Modernizarea transportului în municipiul Hunedoara prin investiții în transportul public ecologic – Coridorul de Est", perioada de desfășurare 22.01.2020 – 20.02.2020, 1500 lei , curs valutar mediu anual pentru 2020, 1Euro = 4.8371 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,31 |
| | 11. Contract cu terți Unitbv, nr. 668 din 22.01.2020, "Modernizarea transportului în municipiul Hunedoara prin investiții în transportul public ecologic – Coridorul de Vest", perioada de desfășurare 22.01.2020 – 20.02.2020, 750 lei , curs valutar mediu anual pentru 2020, 1Euro = 4.8371 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,15 |
| | 12. Contract cu terți Unitbv, nr. 6274 din 12.06.2019, "Colectare date de trafic pentru actualizarea studiului de trafic aferent Municipiului Brașov" perioada de desfășurare 2020, Faza II, 5000 lei , curs valutar mediu anual pentru 2019, 1Euro = 4.7452 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 1,05 |
| | 13. Contract cu terți Unitbv, nr. 6274 din 12.06.2019, "Colectare date de trafic pentru actualizarea studiului de trafic aferent Municipiului Brașov" perioada de desfășurare 20.05.2019 – | 0,86 |



| | | |
|--|---|------|
| | 30.11.2019, Faza I, 4100 lei , curs valutar mediu anual pentru 2019, 1Euro = 4.7452 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | |
| | 14. Contract cu terți Unitbv, nr. 15427 din 26.10.2018, Sistematizarea traficului pe Platforma AUTOLIV, perioada de desfășurare 24.10.2018 – 06.02.2019, 2700 lei , curs valutar mediu anual pentru 2018, 1Euro = 4.6535 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,58 |
| | 15. Contract cu terți Unitbv, nr. 3058 din 2018, Soluții și măsuri privind sistematizarea traficului pe Platforma AUTOLIV Brașov, perioada de desfășurare 2018 -2019. 2700 lei , curs valutar mediu anual pentru 2018, 1Euro = 4.6535 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,58 |
| | 16. Contract cu terți Unitbv, nr. 7281 din 14.06.2018, Studiu privind adaptarea spațiului urban și clădirilor civile la nevoile individuale ale persoanelor cu handicap, perioada de desfășurare 15.06.2018 – 26.09.2018, 2250 lei , curs valutar mediu anual pentru 2018, 1Euro = 4.6535 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,48 |
| | 17. Contract cu terți Unitbv, nr. 3162 din 15.03.2018, "Analiză tehnică a autobuzelor echipate cu sistem de propulsie hibrid", perioada de desfășurare 15.03.2018 – 26.04.2018, 1800 lei , curs valutar mediu anual pentru 2018, 1Euro = 4.6535 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,38 |
| | 18. Contract cu terți Unitbv, nr. 1755 din 16.02.2017, "Introducere sistem de transport urban inteligent și ecologic în orașul Ghimbav. Trasee și infrastructură pentru transport electric", perioada de desfășurare 16.02.2017– 16.03.2018, 3600 lei , curs valutar mediu anual pentru 2017, 1Euro = 4.5681 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS | 0,78 |



| | | |
|--|---|--------------|
| | <p>19. Contract cu terți Unitbv, nr. 9239 din 07.08.2017, "Studiu de trafic rutier pentru orașul Cernavodă", perioada de desfășurare 1.08.2017 – 30.12.2017, 14400 lei, curs valutar mediu anual pentru 2017, 1Euro = 4.5681 Lei.</p> <p>https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS</p> | 3,15 |
| | <p>20. Contract cu terți Unitbv, nr. 11656 din 29.09.2016, "Analiză tehnico-economică comparativă între autobuze Diesel, autobuze electrice și troleibuze", perioada de desfășurare 29.09.2016 – 28.10.2016, 3600 lei, curs valutar mediu anual pentru 2016, 1Euro = 4.4908 Lei. https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS</p> | 0,8 |
| | <p>21. Contract cu terți Unitbv, nr. 12845 din 14.10.2016, "Studiu privind parametri de eficiență energetică la nivelul strategiei locale și a PAED pentru orașul Ghimbav", perioada de desfășurare 14.10.2016 – 01.12.2016, 900 lei, curs valutar mediu anual pentru 2016, 1Euro = 4.4908 Lei.</p> <p>https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS</p> | 0,2 |
| | <p>22. Contract cu terți Unitbv, nr. 2842 din 14.03.2016, "Planul de mobilitate urbană durabilă a orașului Ghimbav", perioada de desfășurare 11.03.2016 – 01.10.2016, 5400 lei, curs valutar mediu anual pentru 2016, 1Euro = 4.4908 Lei.</p> <p>https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS</p> | 1,2 |
| | <p>23. Contract cu terți Unitbv, nr. 10946 din 14.09.2015, "Studiu de mobilitate privind traficul rutier al orașului Ghimbav", perioada de desfășurare 01.10.2015 – 30.04.2016, 1350 lei, curs valutar mediu anual pentru 2015, 1Euro = 4.445 Lei.</p> <p>https://intranet.unitbv.ro/Cercetare/FRACS/Completare-FRACS</p> | 0,3 |
| | Subtotal A3.1 | 31,74 |



A3.2. Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat

| | | |
|--|---|---|
| Congrese/conferințe/ workshopuri internaționale, profesor invitat la universități/institute din străinătate N5 = număr | 1. Participare la conferința UNITA Matching Event Research "RENEWABLE ENERGY MIXES AND MATERIALS FOR A MORE SUSTAINABLE WORLD", Universitatea din Torino, Italia, 14-15 decembrie 2023, https://matching.univ-unita.eu/ | 1 |
| | 2. Participare în calitate de evaluator la conferința MOBIRURAL, "MOBILITY FOR EUROPEAN RURAL AERAS", Badajoz, Spania, 22-24 noiembrie 2023 https://www.mobirural.com/ro/intalnirea-mobirural-numarul-4-in-badajoz/ | 1 |
| | 3. Țârulescu R., Țârulescu S., Benche V., Dynamic characteristics of a translational mobile aggregate, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2015. https://imt.uoradea.ro/auo.fmte/files-2015-v1/Radu%20TARULESCU%20-%20DYNAMIC%20CHARACTERISTICS%20OF%20A%20TRANSLATIONAL%20MOBILE%20AGGREGATE.pdf | 1 |
| | 4. Țârulescu R., Costiuc L., Benche V., Heat exchanger between Newtonian viscous fluids, with flat surfaces, without phase change, in laminar flow regime, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2015. https://www.researchgate.net/publication/294421364_HEAT_EXCHANGER_BETWEEN_NEWTONIAN_VISCOUS_FLUIDS_WITH_FLAT_SURFACES_WITHOUT_PHASE_CHANGE_IN_LAMINAR_FLOW_REGIME | 1 |
| | 5. Țârulescu R., Zamfira S., Olteanu C., Sensorial system optimization for one autonomous mini-vehicle, Proceedings of International Congress „Science and Management of Automotive and Transportation Engineering” SMAT 2014, Vol 1, 23-25 October 2014, Craiova, ISBN 978-606-14-0864-1. https://www.researchgate.net/publication/275543452_SENSORIAL_SYSTEM_OPTIMIZATION_FOR_ONE_AUTONOMOUS_MINI-VEHICLE | 1 |
| | 6. Țârulescu S., Șoica A., Țârulescu R., Emissions level approximation at cold start for Diesel vehicles, ANNUAL SESSION OF SCIENTIFIC | 1 |



| | | |
|--|--|---|
| | <p>PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2015.</p> <p>https://imt.uoradea.ro/auo.fmte/files-2015-v2/Tarulescu%20Stelian,%20Adrian%20Soica,%20Radu%20Tarulescu%20-%20EMISSIONS%20LEVEL%20APPROXIMATION%20AT%20COLD%20START%20FOR%20DIESEL%20VEHICLES.pdf</p> | |
| | <p>7. Țârulescu S., Țoica A., Țârulescu R., LPG, a solution for old vehicles pollution reduction, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2015.</p> <p>https://imt.uoradea.ro/auo.fmte/files-2015-v1/Stelian%20TARULESCU%20-%20LPG,%20A%20SOLUTION%20FOR%20OLD%20VEHICLES%20POLLUTION%20REDUCTION.pdf</p> | 1 |
| | <p>8. Țârulescu R., Zamfira S., Olteanu C., Sensorial system optimization for one autonomous mini-vehicle, Proceedings of International Congress „Science and Management of Automotive and Transportation Engineering” SMAT 2014, Vol 1, 23-25 October 2014, Craiova, ISBN 978-606-14-0864-1.</p> <p>https://www.researchgate.net/publication/275543452_SENSORIAL_SYSTEM_OPTIMIZATION_FOR_ONE_AUTONOMOUS_MINI-VEHICLE</p> | 1 |
| | <p>9. Țârulescu S., Țârulescu R., The influence of wind speed and direction over the ultrasonic detection, Proceedings of International Congress „Science and Management of Automotive and Transportation Engineering” SMAT 2014, Vol 2, 23-25 October 2014, Craiova, ISBN 978-606-14-0864-1.</p> <p>https://www.researchgate.net/publication/275545602_THE_INFLUENCE_OF_WIND_SPEED_AND_DIRECTION_OVER_THE_ULTRASONIC_DETECTION</p> | 1 |
| | <p>10. Țârulescu R., Olteanu C., Țârulescu S., Texture of material influence at ultrasonic detection, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2014.</p> <p>https://www.imt.uoradea.ro/auo.fmte/files-2014-v1/Tarulescu%20Radu%202014-TEXTURE%20OF%20MATERIAL%20INFLUENCE%20AT%20ULTRASONIC%20DETECTION.pdf</p> | 1 |
| | <p>11. Țârulescu R., Țârulescu S., Olteanu C., Vehicle pollution for cold engine functioning, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2014.</p> <p>https://imt.uoradea.ro/auo.fmte/files-2014-v1/Tarulescu%20Radu-VEHICLE%20POLLUTION%20FOR%20COLD%20ENGINE%20FUNCTIONING.pdf</p> | 1 |



| | | |
|--|--|---|
| | <p>12. Țârulescu R., Usage of parallax ultrasonic sensors in distance measurements, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2013. https://www.researchgate.net/publication/275548019_Usage_of_Parallax_ultrasonic_sensors_in_distance_measurements</p> | 1 |
| | <p>13. Țârulescu R., Benche V., Horizontal micro-carrier of heat and mass, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691, 2013. https://imt.uoradea.ro/auo.fmte/files-2013-v1/Tarulescu%20Radu%201.pdf</p> | 1 |
| | <p>14. Țârulescu R., Țârulescu S., Disturbing factors influence in ultrasonic sensor detection, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, ISSN 1583-0691. https://imt.uoradea.ro/auo.fmte/files-2012-v2/MECATRONICA/Tarulescu%20Radu%20L2.pdf</p> | 1 |
| | <p>15. Țârulescu R., Țârulescu S., Distance measurements with ultrasonic sensor DT020-1, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, 2012, ISSN 1583-0691. https://www.researchgate.net/publication/307774864_DISTANCE_MEASUREMENTS_WITH_ULTRASONIC_SENSOR_DT020-1</p> | 1 |
| | <p>16. Țârulescu S., Țârulescu R., The Influence of Geometrical Parameters and Traffic Composition Over the Air Pollution in Urban Areas, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, 2012, ISSN 1583-0691. https://www.researchgate.net/publication/307775007_THE_INFLUENCE_OF_GEOMETRICAL_PARAMETERS_AND_TRAFFIC_COMPOSITION_OVER_THE_AIR_POLLUTION_IN_URBAN_AREAS</p> | 1 |
| | <p>17. Crăciun, O. M., Țârulescu, R., A possible energy recovery at the braking of the commercial ships with average weight, Conferința TEHNONAV 2008, Constanța, mai 2008, Editura Universității Ovidius din Constanța, ISBN 978-973-614-447-9</p> | 1 |
| | <p>18. Țârulescu S., Țârulescu R., Approximation of Air Pollution in Central Area of Brasov, ANNUAL SESSION OF SCIENTIFIC PAPERS IMT ORADEA, Universitatea din Oradea, 2012, ISSN 1583-0691. https://www.researchgate.net/publication/307774871_APPROXIMATION_OF_AIR_POLLUTION_IN_CENTRAL_AREA_OF_BRASOV</p> | 1 |

| | | |
|--|--|---|
| | <p>19. Țârulescu R., Benche V., Ungureanu V. B., Contributions to the gaso-dynamic analytic defining of the burned gases exhausting tube with slots-nozzles for the cooling air suction, Conferința TEHNONAV 2008, Constanța, mai 2008, Editura Universității Ovidius din Constanța, ISBN 978-973-614-447-9. https://www.researchgate.net/publication/275562037_Contributions_to_the_gaso-dynamic_analytic_defining_of_the_burned_gases_exhausting_tube_with_slots-nozzles_for_the_cooling_air_suction</p> | 1 |
| | <p>20. Țârulescu R., Drugă C., Braun B., Ultrasonic sensor for distance measuring, 2nd International Conference "Advanced Composite Materials Engineering" COMAT 2008, 9–11 October 2008, Brasov, ISSN 1844 – 9336. http://aspekt.unitbv.ro/jspui/handle/123456789/556</p> | 1 |
| | <p>21. Țârulescu R., Drugă C., Braun B., Optical sensor for distance measuring, 2nd International Conference "Advanced Composite Materials Engineering" COMAT 2008, 9–11 October 2008, Brasov, ISSN 1844 – 9336. http://aspekt.unitbv.ro/jspui/handle/123456789/556</p> | 1 |
| | <p>22. Drugă C., Țârulescu R., Braun B., On the displacement measuring errors using the coiled resistive transducers in potentiometric mounting, 2nd International Conference "Advanced Composite Materials Engineering" COMAT 2008, 9–11 October 2008, Brasov, ISSN 1844 – 9336. http://aspekt.unitbv.ro/jspui/handle/123456789/556</p> | 1 |
| | <p>23. Drugă C., Braun B., Țârulescu R., Coiled resistive transducers with nonlinear characteristics obtained by shunting, 2nd International Conference "Advanced Composite Materials Engineering" COMAT 2008, 9–11 October 2008, Brasov, ISSN 1844 – 9336. http://aspekt.unitbv.ro/jspui/handle/123456789/556</p> | 1 |
| | <p>24. Benche V., Țârulescu R., Țârulescu S., Reactive centrifugal rotor – the analytical study of two applications, Proceeding of The Symposium "CIVIL Engineering 2007" The 30th Anniversary of Higher Education in Civil Engineering in Constanta 2007, May 3-5, "OVIDIUS" UNIVERSITY ANNALS – CONSTANTZA Year IX (2007), Volume 1, Series: CIVIL ENGINEERING, ISSN 1584 – 5990. https://www.researchgate.net/publication/275581743_Reactive_centrifugal_rotor_-_the_analytical_study_of_two_applications</p> | 1 |
| | <p>25. Crăciun, O. M., Țârulescu, R., A possible recovery system of the potential energy for the rain water in the case of high buildings,</p> | 1 |



| | | |
|--|--|---|
| | <p>Proceeding of The Symposium "CIVIL Engineering 2007" The 30th Anniversary of Higher Education in Civil Engineering in Constantza 2007, May 3-5, "OVIDIUS" UNIVERSITY ANNALS – CONSTANTZA Year IX (2007), Volume 1, Series: CIVIL ENGINEERING, ISSN 1584 – 5990.</p> <p>https://www.researchgate.net/publication/275581593_A_possible_recovery_system_of_the_potential_energy_for_the_rain_water_in_the_case_of_high_buildings</p> | |
| | <p>26. Benche V., Țârulescu R., Ungureanu V., Țârulescu, S., A possible error / deviation / inaccuracy of setting / assembly / adjustment for the water injector at the Pelton tangential turbine and the consequences over the performances, 2nd International Conference on Thermal Engines and Environmental Engineering MET IME 2007, Volume 1, University "DUNAREA DE JOS" of Galati, ISBN 978-973-1724-17-1.</p> <p>https://www.researchgate.net/publication/262877823_A_POSSIBLE_ERRORDEVIATIONINACCURACY_OF_SETTINGASSEMBLYADJUSTMENT_FOR_THE_WATER_INJECTOR_AT_THE_PELTON_TANGENTIAL_TURBINE_AND_THE_CONSEQUENCES_OVER_THE_PERFORMANCES</p> | 1 |
| | <p>27. Benche V., Țârulescu R., Tarulescu S., A study of the dynamics for one hybrid vehicle, automobile-ship, with submersible lifting wing, Sesiune de comunicări științifice cu participare internațională, NAV-MAR-EDU 2007, Academia Navală „Mircea cel Batrân”, Constanța, 15-17 Noiembrie 2007, ISBN 978-973-8303-84-3.</p> <p>https://www.researchgate.net/publication/275574959_A_STUDY_OF_THE_DYNAMICS_FOR_ONE_HYBRID_VEHICLE_AUTOMOBILE-SHIP_WITH_SUBMERSIBLE_LIFTING_WING</p> | 1 |
| | <p>28. Crăciun O., Țârulescu R., Aspects concerning the possibility of burned gases temperature remission for turbo - gaso-dynamic engine TURMO IV C, 2nd International Conference on Thermal Engines and Environmental Engineering MET IME 2007, Volume 2, University "DUNAREA DE JOS" of Galati, ISBN 978-973-1724-17-1.</p> <p>https://www.researchgate.net/publication/275573051_ASPECTS_CONCERNING_THE_POSSIBILITY_OF_BURNED_GASES_TEMPERATURE_REMISSION_FOR_TURBO_GASO-DYNAMIC_ENGINE_TURMO_IV_C</p> | 1 |
| | <p>29. Benche V., Ungureanu V. B., Țârulescu R., Tarulescu S., Contributions at the analytic definition of the dynamics observation for ships with submersible hydro-lifting wing through the angle of</p> | 1 |

| | | |
|--|--|---|
| | <p>incidence/attack , Sesiune de comunicări științifice cu participare internațională, NAV-MAR-EDU 2007, Academia Navală „Mircea cel Batrân”, Constanța, 15-17 Noiembrie 2007, ISBN 978-973-8303-84-3.</p> <p>https://www.researchgate.net/publication/275575733_CONTRIBUTIONS_AT_THE_ANALYTIC_DEFINITION_OF_THE_DYNAMICS_OBSERVATION_FOR_SHIPS_WITH_SUBMER-SIBLE_HYDRO-LIFTING_WING_THROUGH_THE_ANGLE_OF_INCIDENCEATTACK</p> | |
| | <p>30. Crăciun O., Țârulescu R., A possible hydraulic energy recovery of the meteoric and used waters at the multi-level buildings, A XVI – a Conferință de Termotehnică cu Participare Internațională, Universitatea “Petrol-Gaze” din Ploiești, 31 Mai – 1 Iunie 2007, Volumul 2, Masini si Instalatii Termice, Editura Universitatii Petrol - Gaze din Ploiesti, ISSN 1843 – 1992.</p> <p>https://www.researchgate.net/publication/275581625_A_possible_hydraulic_energy_recovery_of_the_meteoric_and_used_waters_at_the_multi-level_buildings</p> | 1 |
| | <p>31. Țârulescu R., Benche V., Țârulescu S., The turbo – gasodynamic recovery of the fluid energy for a road vehicle, A XVI – a Conferință de Termotehnică cu Participare Internațională, Universitatea “Petrol-Gaze” din Ploiești, 31 Mai – 1 Iunie 2007 Volumul 1, Termotehnica, Schimb de Caldura si Aplicatii, Editura Universitatii Petrol - Gaze din Ploiesti, ISSN 1843 – 1992,</p> <p>https://www.researchgate.net/publication/275581404_The_turbo_-_gasodynamic_recovery_of_the_fluid_energy_for_a_road_vehicle</p> | 1 |
| | <p>32. Țârulescu S., Benche V., Țârulescu R., A Possible Hydraulic Recovery/Conversion/Stockage Of The Energy Resulted From The Elastic Strain Of The Tyre Under The Vehicle Weight At The Uniform Horizontal Plane Movement, International Congress Automobile, Environment and Farm Machinery, AMMA2007, Cluj-Napoca, ISSN 1221-5872,</p> <p>https://www.researchgate.net/publication/275581968_A_POSSIBLE_HYDRAULIC_RECOVERYCONVERSIONSTOCKAGE_OF_THE_ENERGY_RESULTED_FROM_THE_ELASTIC_STRAIN_OF_THE_TYRE_UNDER_THE_VEHICLE_WEIGHT_AT_THE_UNIFORM_HORIZONTAL_PLANE_MOVEMENT</p> | 1 |
| | <p>33. Crăciun O., Țârulescu R., Hydraulic system of dissipated energy recovery in the case of wagon braking, Conferința TEHNONAV 2006, Constanța, 19 – 21 mai 2006, Editura Universității Ovidius din</p> | |



| | | |
|---|---|-----------|
| | Constanța, ISBN 973-14-307-4, 978-973-614-307-6. https://www.researchgate.net/publication/275558434_Hydraulic_system_of_dissipated_energy_recovery_in_the_case_of_wagon_braking | |
| | 34. Țârulescu R., Țârulescu S., Contributions for the analytical determination of the wheel drive vehicles in horizontal increasing motion, Conferința TEHNONAV 2006, Constanța, 2006, ISBN 973-14-307-4, 978-973-614-307-6. https://www.researchgate.net/publication/275556637_Contributions_for_the_analytical_determination_of_the_wheel_drive_vehicles_in_horizontal_increasing_motion | 1 |
| | 35. Benche V., Țârulescu R., Țârulescu S., Critic considerations about the topical aerodynamic similitude and simulation of the vehicles, ACME 2006, Conferința Internațională „Concepte Avansate în Ingineria Mecanică” Iași 16-17 iunie 2006, Buletinul Institutului Politehnic Din Iași Publicat de Universitatea Tehnică „Gh. Asachi”, Iași, Tomul LII (LVI), Fasc. 6C, 2006 Secția Construcții De Mașini, ISSN 1011 – 2855. https://www.researchgate.net/publication/275567505_CRITIC_CONSIDERATIONS_ABOUT_THE_TOPICAL_AERODYNAMIC_SIMILITUDE_AND_SIMULATION_OF_THE_VEHICLES | 1 |
| | 36. Crăciun O., Țârulescu R., Tarulescu S, The influences of the low pressure overcharge with moist air over the Diesel Engine functioning, International Congress on Automotive CAR 2005-1042, 2-4 November 2005, Pitești, Editura Universității din Pitești, ISBN 973-690-450-4. https://www.researchgate.net/publication/275564510_THE_INFLUENCES_OF_THE_LOW_PRESSURE_OVERCHARGE_WITH_MOIST_AIR_OVER_THE_DIESEL_ENGINE_FUNCTIONING | 1 |
| Subtotal A3.2 | | 36 |
| A3.3. Citări în publicații BDI (se exclud autocitățile) | | |
| C1 = numărul de citări SFI = suma factorilor de impact al publicațiilor WOS în | 1. Titlu citat : Urban Transportation Solutions for the CO2 Emissions Reduction Contributions, Tarulescu, S.; Tarulescu, R. https://www.webofscience.com/wos/woscc/full-record/WOS:000390821400049 Citare 1: A prospective study to evaluate CO2 emission mitigation strategies for highway transportation, Gedik, A; Uslu, O; Lav, AH, | 1,57 |

| | | |
|---|--|-------------|
| <p>care apar citările</p> <p>C = C1 + SFI</p> | <p>ENVIRONMENTAL MONITORING AND ASSESSMEN, Volume194 Issue10, DOI10.1007/s10661-022-10349-5, 2022, ISSN 0167-6369, Journal Citation Indicator ™ (2022) = 0,57.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000843526400003</p> | |
| | <p>2. Titlu citat : Usage of Electric Motors/Generators for Engines Supercharging in Order to Increase the Efficiency of Exhaust Gas Energy Recovery, Leahu Cl., Radu S.,Țârulescu S.,Țârulescu R.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000578264900064</p> <p>Citare 1: Influence of External Clearance Variation on Vibration Characteristics of Ship Electrically Assisted Turbocharger Rotor Bearing System, Duan, BY; Yang, CL; (...); Wang, YY, INTERNATIONAL JOURNAL OF STRUCTURAL STABILITY AND DYNAMICS, Journal Citation Indicator ™ (2023) = 0,84.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:001344723400002</p> | <p>1,84</p> |
| | <p>3. Titlu citat: The exhaust gas temperature control through an adequate thermal management of the engine, Leahu, Cl; Tarulescu, S; Tarulescu, R.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000467443600123</p> <p>Citare 1: A review of regeneration mechanism and methods for reducing soot emissions from diesel particulate filter in diesel engine, Luo, JB; Zhang, HG; Liu, ZH; Zhang, ZQ; Pan, YJ; Liang, XG; Wu, SZ; Xu, HX H; Xu, S; Jiang, CM, ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, Volume30Issue37Page86556-86597, DOI10.1007/s11356-023-28405-z, 2023, ISSN 0944-1344, Journal Citation Indicator ™ (2023) = 0,99.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:001025720900001</p> <p>Citare 2: Investigation of the effect of JP-8 fuel and biodiesel fuel mixture on engine performance and emissions by experimental and</p> | <p>8,12</p> |



| | | |
|--|---|------|
| | <p>statistical methods, Ardebili, SMS; Kocakulak, T; Aytav, E; Calam, A - ENERGY, Volume254PartA, DOI10.1016/j.energy.2022.124155, 2022, ISSN 0360-5442, Journal Citation Indicator™ (2023) = 1,59. https://www.webofscience.com/wos/woscc/full-record/WOS:000808005500010</p> <p>Citare 3: Bench Tests for Exhaust Gas Temperature Distribution in an Aircraft Piston Engine with and without a Turbocharger, Czarnigowski, J; Skiba, K; Rekas, D; Scislowski, K; Jaklinski, P, ADVANCES IN SCIENCE AND TECHNOLOGY-RESEARCH JOURNAL, Volume15Issue3Page155-166, DOI10.12913/22998624/139688, 2021, ISSN 2080-4075, Journal Citation Indicator™ (2022) = 0,33. https://www.webofscience.com/wos/woscc/full-record/WOS:000704282900016</p> <p>Citare 4: Modelling Fuel Consumption and NOx Emission of a Medium Duty Truck Diesel Engine With Comparative Time-Series Methods, Ozmen, MI; Yilmaz, A; Baykara, C; Ozsoysal, OA, IEEE ACCESS, Volume9Page81202-81209, DOI10.1109/ACCESS.2021.3082030, 2021, ISSN 2169-3536, Journal Citation Indicator™ (2023) = 0,87. https://www.webofscience.com/wos/woscc/full-record/WOS:000673897000001</p> <p>Citare 5: Experimental Research on Exhaust Thermal Management Control Strategy for Diesel Particular Filter Active Regeneration, Wang, J; Wang, B; Cao, Z, INTERNATIONAL JOURNAL OF AUTOMOTIVE TECHNOLOGY, Volume21Issue5Page1185-1194, DOI10.1007/s12239-020-0112-x, 2020, ISSN 1229-9138, Journal Citation Indicator™ (2022) = 0,34. https://www.webofscience.com/wos/woscc/full-record/WOS:000574473700012</p> | |
| | <p>4. Titlu citat: Smart Transportation CO2 Emission Reduction Strategies, Tarulescu, S; Tarulescu, R; Soica, A; Leahu, CI. https://www.webofscience.com/wos/woscc/full-record/WOS:000419817200051</p> <p>Citare 1: A Review on Electric Bus Charging Scheduling from Viewpoints of Vehicle Scheduling, Rong, A (Rong, A.) [1] ; Chen, S</p> | 6,84 |

| | | |
|--|--|--------------|
| | <p>(Chen, S.) [1] ; Shi, D (Shi, D.) [2] ; Zhang, M (Zhang, M.) [1] ; Wang, C (Wang, C.) [1], IEEE, 2021 IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL ENGINEERING AND ENGINEERING MANAGEMENT (IEEE IEEM21), Page1-5, DOI10.1109/IEEM50564.2021.9673069, 2021, ISSN 2157-3611.</p> <p>https://www.webofscience.com/wos/woscc/summary/aaa1864a-2200-411d-8f72-888ce2c288d8-e920ae63/date-descending/1</p> <p>Citare 2: A Systematic Review on Carbon Dioxide (CO₂) Emission Measurement Methods under PRISMA Guidelines: Transportation Sustainability and Development Programs, Zubair, M; Chen, SY; (...); Hu, XJ, Sustainability, Journal Citation Indicator™ (2022) = 0,68.https://www.webofscience.com/wos/woscc/full-record/WOS:000958101100001</p> <p>Citare 3: Fixed-charge solid transportation problem with budget constraints based on carbon emission in neutrosophic environment, Ghosh, S; Roy, SK and Verdegay, JL, Soft Computing, Journal Citation Indicator™ (2023) = 0,68. https://www.webofscience.com/wos/woscc/full-record/WOS:000849293700001</p> <p>Citare 4: Seeking low carbon urban design through modelling of carbon emission from different sources in urban neighbourhoods, case study, Semnan, Baghi, ESMS and Ranjbar, E, INTERNATIONAL JOURNAL OF URBAN SUSTAINABLE DEVELOPMENT, Journal Citation Indicator™ (2023) = 0,46.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000636061200001</p> <p>Citare 5: Sustainable urban transport on three wheels, Hossein, ME, ROMANIAN JOURNAL OF TRANSPORT INFRASTRUCTURE, Journal Citation Indicator™ (2023) = 0,02.</p> <p>https://www.webofscience.com/wos/woscc/full-record/WOS:000625343600002</p> | |
| | Subtotal A3.3 | 18,37 |