

Lista de lucrări

Nr. crt.	Autori	Lucrare	Publicat/Sustinut
1.	Dumitru Ilie, Matei Lucian, Racila Laurențiu, Nicoleta Gencărașu, Alexandru Oprica	Chemical pollution evaluation method using the carbon footprint for various road traffic scenarios in Craiova	CONAT 2024 INTERNATIONAL CONGRESS OF AUTOMOTIVE AND TRANSPORT ENGINEERING, PT TWO, Page 105-111 DOI 10.1007/978-3-031-77631-1_8 WOS:001462624600008
2.	Alexandru Constantin OPRICA , Nicoleta GENCĂRĂU, Ilie DUMITRU, Laurențiu RACILĂ, Lucian MATEI, Augustin CONSTANTINESCU	Application Of A Synthetic Power Indicator Method To Quantify Chemical Pollution In Motor Vehicles	ACTA TECHNICA NAPOCENSIS SERIES- APPLIED MATHEMATICS MECHANICS AND ENGINEERING Volume 6, Issue I, Page 247-254, March 2025 WOS:001565922600024
3.	Alexandru OPRICA , Nicoleta GENCĂRĂU, Ilie DUMITRU, Laurențiu RACILĂ, Lucian MATEI, Augustin CONSTANTINESCU	Research On The Relationship Between Passenger Volume And The Energy Efficiency Of Electric Buses	ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering Vol. 68, Issue II, June 2025
4.	M Lucian, D Ilie, L Racila, O Otat, A Oprica , N Gencarau	Traffic analysis of different geometries of a junction for optimization of vehicle capacity and traffic safety increase	32ND INTERNATIONAL CONGRESS OF SIAR OF AUTOMOTIVE AND TRANSPORT ENGINEERING, EAEC-MVT 2022 Volume 1311 DOI 10.1088/1757-899X/1311/1/012053 WOS:001530989600053
5.	L Racila, I Dumitru, A Oprica and L Matei	Proposed solution for the electrification of a motor vehicle formerly powered by an internal combustion engine (case study: Olcit)	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/1303/1/012012 https://iopscience.iop.org/article/10.1088/1757-899X/1303/1/012012/meta
6.	N D Gencărașu, L	Evaluation of different	IOP Conference Series: Materials Science

	Matei, I Dumitru, O V Stănciuc-Oțăt, M Racilă, A Oprica and L Racila	vehicle types by using modelling algorithms in road traffic virtual networks platforms	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/1303/1/012054 https://iopscience.iop.org/article/10.1088/1757-899X/1303/1/012054/meta
7.	A Oprica , B Florescu, M Bică, I Dumitru, D Tutunea, L Racila and N D Gencărau	An analysis of emissions and carbon footprints for the various types of vehicle propulsion	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) 2023 https://iopscience.iop.org/article/10.1088/1757-899X/1303/1/012053/meta
8.	Ionut Geonea, Ilie Dumitru, Alexandru Oprica , and Nicoleta Gencarau	Study Concerning Contact Strain and Stresses in Radial-Axial Bearings	Proceedings of the International Conference of Mechanical Engineering (ICOME-2022) Atlantis Highlights in Engineering 30 May 2023 DOI : 10.2991/978-94-6463-152-4_35
9.	Matei Lucian, Dumitru Ilie, Racila Laurențiu, Tutunea Dragoș and Oprica Alexandru	Traffic analysis for the reconstruction of the street geometries in the case of the construction of shopping centre in crowded cities	IOP Conf. Series: Materials Science and Engineering 1220 (2022) 012059 DOI: 10.1088/1757-899X/1220/1/012059
10.	Nicoleta GENCĂRĂU, Theodor OPRICA, Oana OȚĂT, Laurențiu RACILĂ, Lucian MATEI, Mihaela RACILĂ, Ilie DUMITRU, Alexandru OPRICA	Road Traffic Analysis In The Context Of Heavy Traffic Transport Removal Policy	ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering Vol. 65, Issue Special II, September, 2022 WOS:000911249300009 https://atna-mam.utcluj.ro/index.php/Acta/article/view/1908
11.	Oprica, A , Bica, M, Florescu, B, Lay, B, Racila, L, Pascu, I, Dumitru, I	Modeling the throttle airflow in relation to the load regulation in internal combustion engines	ACTA TECHNICA NAPOCENSIS SERIES-APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume 64, Issue 1, Page 417-422, Special Issue SI 2, Published FEB 2021

			WOS:000633446300016
12.	Florescu, B, Oprica, A , Dumitru, I, Matei, L, Gencarau, N	Junction signal plan assessment in relation to different programming strategies	ACTA TECHNICA NAPOCENSIS SERIES- APPLIED MATHEMATICS MECHANICS AND ENGINEERING, Volume 64, Issue 1, Page 311-316, Special Issue SI 2, Published FEB 2021 WOS:000633446300004
13.	Craciunoiu, N, Oprica, A , Pascu, Cl	Aspects about deployment of lean principles for improving the production process quality in automotive industry	INGINERIA AUTOMOBILULUI, Issue 59, Page 7-10, Published JUN 2021 WOS:000660969100005
14.	Alexandru OPRICA , Alexandru DIMA, Bogdan FLORESCU, Ilie DUMITRU	Study on the Energy Parameters of a Vehicle while Driving Using DEWESOFT- 101 Minitaur	International Conference of Mechanical Engineering, ICOME 2019, 24th – 25th of October 2019, published by TTP inc in Applied Mechanics and Materials https://doi.org/10.4028/www.scientific.net/AMM.896.235
15.	Bogdan Stefan FLORESCU, Laurențiu RACILA, Alexandru OPRICA , Lucian MATEI, Ilie DUMITRU,	Using topographic elevations in creating traffic scenarios in junctions	Paper of International Conference of Engineering Graphics and Design, 15 – 17 May 2019, Craiova;, Journal of Industrial Design and Engineering Graphics, ISSN 1843 – 3766, pp 109-112 http://www.sorging.ro/jideg/index.php/jideg/article/view/30
16.	Alexandru OPRICA , Alexandru DIMA, Dragos TUTUNEA, Lucian MATEI, Ilie DUMITRU	Configuring the street tram through the AIMSUN software graphical elements	Paper of International Conference of Engineering Graphics and Design, 15 – 17 May 2019, Craiova, Journal of Industrial Design and Engineering Graphics, ISSN 1843 – 3766, pp. 145-148 http://sorging.ro/jideg/index.php/jid/article/view/446
17.	Matei, L., Ilie DUMITRU, Racila, L.D., Tutunea, D., Oprica, A.C. –	Using virtual inductive loops to adapt the signal plans of junctions	2019, IOP Conference Series: Materials Science and Engineering, 568(1),012106; https://iopscience.iop.org/article/10.1088/1757-899X/568/1/012106/meta
18.	Lucian Matei, Ilie DUMITRU, Alexandru Oprica , Laurentiu	Studies on determining the dynamics of public	AMMA 2018: the 4th International Congress of Automotive and Transport Engineering "Automobiles, Mobility, and

	Racila, Bogdan Florescu, Alexandru, Dima, Mihaela Racila	transport based on interdependent passengers – reconfiguration	Alternative Solutions": selection of papers, pp. 229 – 236, Editura U.T.Press, ISBN 978-606-737-314-1, Cluj-Napoca, 2018
19.	TUTUNEA Dragos, OPRICA Alexandru , NICU Ana-Maria, STAICU Diana- Camelia, DUMITRU Ilie	CFD and structural analysis of the intake manifold flap of an internal combustion engine	4 th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials
20.	DIMA Alexandru, OPRICA Alexandru , NICU Ana-Maria, STAICU Diana- Camelia, DUMITRU Ilie	Simulation of air in the intake manifold flap of an internal combustion engine	4 th International Conference of Mechanical Engineering-ICOME 2017, 11-12 October 2017, published by TTP inc in Applied Mechanics and Materials, http://mecnica.ucv.ro/ViataAcademica/Conferinta/ICOME2017/Papers/S3.pdf ;
21.	Matei Lucian, Racilă Mihaela, Oprica Alexandru , Dumitru Neagoe, DUMITRU Ilie, Racilă Laurențiu	Mathematical method for studying passenger flows in Craiova Municipality public transport system	CAR2017 International Congress of Automotive and Transport Engineering - Mobility Engineering and Environment, CAR 2017_021, 8–10 November 2017, Pitesti, Romania; https://doi.org/10.26825/bup.ar.2017.001
22.	Dumitru, I., Racila, L., Tutunea, D., Matei, L., Dima, Al., Oprica, Al.	Using Type Identification Systems to Test the Mathematical Model for the Economic Pole of a Diesel Engine	CONAT 2016 International Congress of Automotive and Transport Engineering, pp. 136-143, Springer International Publishing Switzerland 2017, ISBN 978-3-319-45446- 7, ISBN 978-3-319-45447-4 (eBook), DOI 10.1007/978-3-319-45447-4; http://www.springer.com/gp/book/9783319454467
23.	Ilie Dumitru, Racila Laurentiu, Tutunea Dragos, Matei Lucian, Dima Alexandru & Oprica Alexandru	Experimental Investigation of a Vehicle Behavior Using Different Complex Data Acquisition Systems	CONAT 2016 International Congress of Automotive and Transport Engineering
24.	Dumitru, I., Racila, L., Matei., L., Oprica, Al. , Valeanu, V.	Aspects of Functional Optimization and Performance Evaluation Using an Experimental Programmable Engine Control Unit	Automotive and Transportation Engineering – Selected, peer reviewed papers from International Congress Science and Management of Automotive and Transportation Engineering – SMAT 2014, , pp 365-372, Volume 822 of Applied Mechanics and Materials, ISSN print 1660-9336, ISSN cd 1660-9336, ISSN web 1662-7482, https://doi.org/10.4028/www.scientific.net/AMM.822.365