

LISTĂ DE LUCRĂRI

Conf. univ. dr. ing. Ramona-Monica STOICA

A. Lucrări relevante pentru realizările proprii

1. Magdalena Rykala, Malgorzata Grzelak, Lukasz Rykala, Daniela Voicu, Ramona-Monica Stoica, Modeling Vehicle Fuel Consumption Using a Low-Cost OBD-II Interface, Energies 2023 16(21), 7266; Volume 16, Issue 21, FI 3,2 <https://doi.org/10.3390/en16217266>
2. Ramona-Monica STOICA, Radu VILĂU, Daniela VOICU, Malgorzata GRZELAK, Application of machine learning methods to analyze customer migration risk in terms of corporate financial security, Military Logistics Systems Journal, 2024, <https://doi.org/10.37055/slw/186379> CrossRef
3. Vilau Radu, Voicu Daniela, Stoica Ramona-Monica, Ciobotaru Ticușor, Rykala Magdalena, Rykala Lukasz, Investigating vibration transmission in cargo containers Off-road, Advances in science and technology – research journal, DOI 10.12913/22998624/189613, FI 0,8
4. Radu Vilau, Daniela Voicu, Ramona-Monica Stoica, Malgorzata Grzelak, Magdalena Rykala, Lukasz Rykala, Functional analysis of pneumatic systems for automatic control, Ingineria Automobilului, nr. 73, dec. 2024, pg. 16-20, ISSN 1842-4074
5. Stefan-Tigran Radu, Radu Vilau, Daniela Voicu, Ramona-Monica Stoica, Analysis of performances of an electro-hydraulic system from auto-trucks, Ingineria Automobilului, nr. 74, mar. 2025, pg. 17-22, ISSN 1842-4074, WOS:001460116200004
6. Ramona-Monica Stoica, Daniela Voicu, Radu Vilău, Investigation of Bearing Condition by means of robust linear regression and informative predictors, Vehicles 2025, 7(4), 127, <https://doi.org/10.3390/vehicles7040127>, FI 2,3
7. Ionela-Crina Tițu, Radu Vilau, Ramona-Monica Stoica, Daniela Voicu, Development of a control and actuation test bench for the analysis of automotive hydraulic dampers, Ingineria Automobilului, nr. 77, dec. 2025, pg. 19-23, ISSN 1842-4074
8. Frequency analysis of vibrations in terms of human exposure while driving military armoured personnel carriers and logistic transportation vehicles, Daniela Voicu, Ramona Monica Stoica, Radu Vilău, Marin Marinescu, Angela Digulescu, Cristina Despina-Stoian and Florin Popescu, Electronics 2023, Special Issue New Trends and Methods in Communication Systems, 12(14), 3152; <https://doi.org/10.3390/electronics12143152>
9. Influence analysis of vibrations and shocks generated by road bumps on crew members during long distance transportation or on off-road terrain, Daniela VOICU, Stoica R. M., Laszlo BAROTHI, Radu VILĂU, Ingineria Automobilului, nr. 63, iun. 2022, pg. 15-18, ISSN 1842-4074, WOS:000565210700005
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10. Bearings fault detection by means of frequency analysis, Stoica R. M., D Voicu, R Vilau, L Barothi and L Deleanu AITS 2021, IOP Conf. Series: Materials Science and Engineering, doi:10.1088/1757-899X/1220/1/012032

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11. Study regarding the influence of geometrical characteristics of the distribution system on truck engines efficiency parameters, L Barothi, Stoica R. M., D Voicu, R Vilau, L Deleanu, AITS 2021, IOP Conf. Series: Materials Science and Engineering, doi:10.1088/1757-899X/1220/1/012006

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12. Aspects regarding the operation and electronic control of diesel engines, Darie Catalin Dumitru, Cucu Leonard Catalin, Stoica R. M., Copae Ion, Ingineria Automobilului, nr. 59, iun. 2021, pg. 24-26, ISSN 1842-4074, WOS:000565210700005

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13. Simulation and comparative analysis of pollutant emissions before and after PID control of engine functioning, Barothi Laszlo, Stoica R. M., Voicu Daniela, Singureanu Marius, Ingineria Automobilului, nr. 56, sep. 2020, pg. 19-23, ISSN 1842-4074, WOS:000565210700005

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14. Experimental research and simulation of vibration isolation elements mounted within transport boxes, D. VOICU, Stoica R. M., R VILAU, L BAROTHI, IOP Conf. Series: Materials Science and Engineering 997 (2020) 012033, doi:10.1088/1757-899X/997/1/012033

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15. Influence of controlled smelting conditions on the inclusional state of some maraging steels, Ginghina R. E., Tiganescu V. T., O. G. Iorga, Stoica R. M., Paraschiv T., University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and materials science, Vol. 82, Issue 2, pg. 175-184, 2020, WOS:000550842800016

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16. Recording of parameters characteristic to engine and vehicle in order to validate a simulation model for fuel consumption, Laszlo Barothi, Daniela Voicu, Stoica R. M., Marius Singureanu, 5th International Scientific Conference SEA-CONF 2019, 17–18 May 2019, Mircea cel Batran Naval Academy, Constanta, Romania, IOP Conf. Series: Journal of Physics: Conf. Series 1297 (2019) 012030 IOP Publishing, doi:10.1088/1742-6596/1297/1/012030

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17. Modeling of a Standardized Testing Track With The Use of Specialized Software, Daniela Voicu, Stoica R. M., Laszlo Barothi, The 30th SIAR International Congress of Automotive and Transport Engineering, SMAT 2019, ISBN 978-3-030-32563-3, online ISBN 978-3-030-32564-0, pag. 451-457

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18. Comparative Study Regarding the Operation of a Car's Internal Combustion Engine in Urban and ExtraUrban Environment, Ion Lespezeanu, Stoica R. M., Radu Vilau, Daniel Sava, Ion Copae, The 30th SIAR International Congress of Automotive and Transport Engineering, pg. 177-187, oct. 2019, published 2020, DOI: 10.1007/978-3-030-32564-0_21 https://www.researchgate.net/publication/336558161_Comparative_Study_Regarding_the_Operation_of_a_Car%27s_Internal_Combustion_Engine_in_Urban_and_Extra-Urban_Environment
19. Considerations concerning the power loops within the all-wheel driven transmissions of the automobile, Truta Marian, Barothi Laszlo, Voicu Daniela, Stoica R. M., Valentin Vinturis, Ingineria Automobilului Issue 46, pages 14-16, martie 2018, ISBN 978-973-720-708-1 https://siar.ro/wp-content/uploads/2018/02/rIA_46-2018_1.pdf
20. Development of a measuring system for the analysis of vibrations sent from engine to passenger seat, Daniela Voicu, M. Truță, Laszlo Barothi, Stoica R. M., D.I. Dorobanțu, CAR 2017 International Congress of Automotive and Transport Engineering IOP Conference series Materials Science and Engineering 252(1):012024, Thomson Reuters, Web of Science, DOI: 10.1088/1757-899x/252/1/012024 https://www.researchgate.net/publication/320580677_Development_of_a_measuring_system_for_the_analysis_of_vibrations_sent_from_engine_to_passenger_seat
21. The analysis of experimental data obtained from automotives tests, Stoica R. M., VJ Radulescu, Daniel Neagu, Catalin Trocan, Ion Copae, The 7th International Conference on Advanced Concepts in Mechanical Engineering, ACME 2016, Iași, iunie 2016, IOP Publishing England&USA, vol.147, no.1, 2016, DOI:10.1088/1757-899X/147/ 1/012115, WOS:000390720200115 <https://www.webofscience.com/wos/woscc/full-record/WOS:000390720200115>

B. Teza de doctorat

“Studiul comparativ al funcționării motorului de automobil cu benzină și cu gaz petrolier lichefiat”, Domeniul Inginerie mecanică.

Titlul de doctor a fost obținut în septembrie 2017, profesor coordonator: gl. bg. prof. univ. dr. ing. Ion Copae.

C. Cărți, capitole din cărți, manuale și îndrumare de laborator

1. Software în ingineria autovehiculelor. Elemente de teorie și aplicații, Editura Tehnică – UTM, Chișinău, 2025, ISBN 978-9975-64-595-9
2. Acționări electrohidraulice în industria de autovehicule, Radu Vilău, Ramona-Monica STOICA, Daniela VOICU, Editura Academiei Tehnice Militare “Ferdinand I”, București, 2022, ISBN 978-973-640-338-5

3. Acționări pneumatice. Îndrumar de laborator, Editura Academiei Tehnice Militare “Ferdinand I”, București, 2021, ISBN 978-973-640-332-3
4. Aplicații practice în domeniul transmisiilor mecanice. Îndrumar de laborator, Ramona-Monica Stoica, Daniela Voicu, Radu Vilău, Laszlo Barothi, Editura Academiei Tehnice Militare “Ferdinand I”, București, 2021, ISBN 978-973-640-292-0
5. Desen tehnic în ingineria autovehiculelor, Editura Academiei Tehnice Militare “Ferdinand I”, București, 2020, ISBN 978-973-640-310-1
6. Transmisii mecanice și organe de mașini - Noțiuni de bază, Editura Academiei Tehnice Militare “Ferdinand I”, București, 2019, ISBN 978-973-640-300-2
7. Tehnologia materialelor. Prelucrări mecanice. Îndrumar de laborator: Radu Vilău, Roxana Nedelcu, Ramona-Monica Stoica, Editura Academiei Tehnice Militare, București, 2018

D. Articole în reviste cotate ISI Thomson Reuters, reviste indexate ISI și proceeding indexate ISI

1. Magdalena Rykala, Malgorzata Grzelak, Lukasz Rykala, Daniela Voicu, Ramona-Monica Stoica, Modeling Vehicle Fuel Consumption Using a Low-Cost OBD-II Interface, Energies 2023 16(21), 7266; Volume 16, Issue 21, FI 3,2 <https://doi.org/10.3390/en16217266>
2. Vilau Radu, Voicu Daniela, Stoica Ramona-Monica, Ciobotaru Ticușor, Rykala Magdalena, Rykala Lukasz, Investigating vibration transmission in cargo containers Off-road, Advances in science and technology – research journal, DOI 10.12913/22998624/189613, FI 0,8
3. Radu Vilau, Daniela Voicu, Ramona-Monica Stoica, Malgorzata Grzelak, Magdalena Rykala, Lukasz Rykala, Functional analysis of pneumatic systems for automatic control, Ingineria Automobilului, nr. 73, dec. 2024, pg. 16-20, ISSN 1842-4074
4. Stefan-Tigran Radu, Radu Vilau, Daniela Voicu, Ramona-Monica Stoica, Analysis of performances of an electro-hydraulic system from auto-trucks, Ingineria Automobilului, nr. 74, mar. 2025, pg. 17-22, ISSN 1842-4074, WOS:001460116200004
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6. Ionela-Crina Tițu, Radu Vilau, Ramona-Monica Stoica, Daniela Voicu, Development of a control and actuation test bench for the analysis of automotive hydraulic dampers, Ingineria Automobilului, nr. 77, dec. 2025, pg. 19-23, ISSN 1842-4074

7. Daniela Voicu, R. M. Stoica, Radu Vilău, Marin Marinescu, Angela Digulescu, Cristina Despina-Stoian and Florin Popescu, Frequency analysis of vibrations in terms of human exposure while driving military armoured personnel carriers and logistic transportation vehicles, Electronics 2023, Special Issue New Trends and Methods in Communication Systems, 12(14), 3152; <https://doi.org/10.3390/electronics12143152>

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9. Daniela Voicu, Radu Vilău, R M Stoica, Ion Lespezeanu, Developing a pneumatic model for actuating a trap door while opening-closing a military personnel compartment, Ingineria Automobilului, nr. 61, dec. 2021, pg. 16-18, ISSN 1842-4074, WOS:000565210700005

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11. Considerations regarding the comparative determination of materials hardness submitted to heat treatments, R M Stoica, D Voicu, L Barothi, R Vilau, Ingineria automobilului, nr. 54, martie 2020, ISSN 1842 – 4074

12. Barothi Laszlo, Stoica R. M., Voicu D., Singureanu M., Simulation and comparative analysis of pollutant emissions before and after PID control of engine functioning, Ingineria Automobilului, nr. 56, 2020, pg. 20-23, ISSN 1842-4074, WOS:000565210700005

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14. Ion Lespezeanu, Ramona-Monica Stoica, Radu Vilau, Daniel Sava, Ion Copae: “Comparative Study Regarding the Operation of a Car’s Internal Combustion Engine in Urban and ExtraUrban Environment”, The 30th SIAR International Congress of Automotive and Transport Engineering (SMAT), Craiova, oct 2019, pg. 177-187, published 2020, WOS:000528526600021

15. Truta Marian, Barothi Laszlo, Voicu Daniela, R M Stoica, Valentin Vinturis, Considerations concerning the power loops within the all-wheel driven transmissions of the automobile, Ingineria Automobilului Issue 46, pages 14-16, martie 2018, ISBN 978-973-720-708-1

16. Voicu D., Truta M., Laszlo B., Stoica R. M., Dorobantu G. I.: “Development of a measuring system for the analysis of vibrations sent from engine to passenger seat”, CAR 2017, The International Congress of Automotive and Transport Engineering, Pitesti, ROMANIA, 8-10 november, WOS:000419817200024

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Publishing England & USA, vol. 147, no.1, DOI:10.1088/1757-899X/147/ 1/012115, WOS:000390720200115

18. Stoica R. M., Radulescu V.-J., Neagu D., Trocan C., Copae I. (2016) The study of engines functioning based on experimental data. The 12th International Congress of Automotive and Transport Engineering, CONAT 2016, Braşov, octombrie 2016, publicat in Ingineria Automobilului, nr. 42, pg. 9-12, 2017, WOS:000409240200006

E. Articole în reviste şi volumele unor manifestări ştiinţifice indexate în baze de date internaţionale (BDI)

1. Ramona-Monica STOICA, Radu VILĂU, Daniela VOICU, Malgorzata GRZELAK, Application of machine learning methods to analyze customer migration risk in terms of corporate financial security, Military Logistics Systems Journal, 2024, <https://doi.org/10.37055/slsw/186379> CrossRef

2. Daniela Voicu, Radu Vilau, Stoica R. M., Developing a Pneumatic Actuating System to Illustrate the Functioning of an AND Logic Valve, Acta Universitatis Danubius, vol. 17, no. 6, 2021, pp. 270-277, ISSN: 2065-0175

3. Stoica R. M., Daniela Voicu, Radu Vilau, Graphical Methods Used to Solve Misalignment Problems of Mechanical Transmissions, Acta Universitatis Danubius, vol. 17, no. 6, 2021, pp. 231-238, ISSN: 2065-0175

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5. Ginghina R. E., Tigănescu V. T., O. G. Iorga, Stoica R. M., Paraschiv T., Influence of controlled smelting conditions on the inclusional state of maraging steels, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and materials science, Vol. 82, Issue 2, pg. 175-184, 2020, WOS:000550842800016

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9. Stoica R. M., Rădulescu V.-J., D. Neagu, C. Trocan, I. Copae: Aspects Regarding the Analysis and Reconstruction of Car Crashes, Romanian Journal of Automotive Engineering (ROJAE), Volume 23, pg. 113, september 2017, ISSN 2457 – 5275 (Online, English), ISSN 1842 – 4074 (Print, Online, Romanian), WOS:000424398000006

10. Stoica R. M., V. J. Radulescu, Daniel Neagu, Catalin Trocan, Ion Copae, “Tensorial analysis of automotive engine functioning based on experimental data”, The 1st International Conference "Experimental Mechanics in Engineering", EMECH 2016, Braşov, iunie 2016, Annals of Faculty of Engineering, Tome XIV, Fascicule 3, pg. 175-180, Hunedoara, 2016

11. Stoica R. M., Marian Eduard Radulescu, Irinel Dinu, George Ene, Marius Simionescu, Ion Copae, "Analysis and Reconstruction of Car Crashes in Case of Uncertainties". Romanian Journal of Automotive Engineering, Volume 21, 4th Series, Number 3, september 2015, pg. 79-87, Revista Inginerilor de Automobile, vol. 9, nr.3, pag. 7-11, septembrie 2015

12. Uncertainty in the study of automotives dynamics and analysis and reconstruction of car crashes, R M Stoica, Marian-Eduard Rădulescu, Irinel Dinu, George Ene, Daniel Neagu and Ion Copae, European Automotive Congress EAEC-ESFA, Bucharest, pg. 431-442, november 2015, published in Proceedings of the European Automotive Congress EAEC-ESFA 2015, ISBN 978-3-319-27275-7 ISBN 978-3-319-27276-4 (eBook), DOI 10.1007/978-3-319-27276-4, 2016

13. The comparative study of engine vehicles functioning with petrol and liquefied petroleum gas, R M Stoica, Marian-Eduard Rădulescu, Irinel Dinu, George Ene, Daniel Neagu and Ion Copae, European Automotive Congress EAEC-ESFA, Bucharest, pg. 285-296, november 2015, published in Proceedings of the European Automotive Congress EAEC-ESFA 2015, ISBN 978-3-319-27275-7 ISBN 978-3-319-27276-4 (eBook), DOI 10.1007/978-3-319-27276-4, 2016

F. Articole publicate în reviste naţionale şi volumele unor manifestări ştiinţifice naţionale şi internaţionale, neindexate

1. Dorobantu G.-I., Copae I., Stoica R. M., The study of vehicle dynamics with the use of GPS equipment and on-board tester”, Asian Academic Research Journal of Multidisciplinary, Volume 5, Issue 10, october 2018, pg. 1-11

2. Daniela Voicu, Laszlo Barothi, Stoica R. M., Andrei Mandache Dodoiu: “The development of a recording system able to read vehicle parameters from on-board computer without the use of a dedicated/universal tester”, AMMA 2018, The IVth International Congress of Automotive and Transport Engineering, Editura U.T. Press, octombrie 2018, Cluj-Napoca, Romania, pg. 175-180, ISBN 978-606-737-314-1

3. Liviu PETRESCU, Alexandru PETRESCU, Stoica R. M., Daniel SAVA, Leonard-Iulian CUCU, Cătălin-Dumitru DARIE: „Elements regarding the dynamics of vehicle-pedestrian collision”, Asian Academic Research Journal of Social Science & Humanities, Volume 4, Issue 2, February 2018, pg. 326-343, ISSN: 2278 –859X

4. Petrescu L., Petrescu A., Stoica R.-M., Dorobanțu G.-I., Rădulescu V.-J., „Aspects regarding the reconstruction of car crashes involving pedestrians”, Asian Academic Research Journal of Multidisciplinary, Volume 4, Issue 4, 2017, pg. 25-35
5. Ilie V., Frățila G., Stoica R. M., Nicolau M., Pântece I.: „Aspects regarding the rollover crash reconstruction of road accidents”, Asian Academic Research Journal of Multidisciplinary, Volume 4, Issue 8, 2017, pg. 37-47
6. Laszlo Barothi, Radu Vilau, Daniela Voicu, Stoica R. M.: The study of a vehicle's suspended mass oscillation with an Arduino UNO based data acquisition system, Universitatea Agrara de stat din Moldova, Chisinau, Vol. 51, pg. 224-229, ISBN 978-9975-64-300-9
7. Ion Lespezeanu, Stoica R. M., Irinel Dinu, Ion Copae, “Research concerning the influence of some factors on the functioning of the vehicle engine”, Asian Academic Research Journal of Multidisciplinary, Volume 2, Issue 4, september 2015, pg. 331-341, ISSN 2319-2801
8. Stoica R. M. et. al., “The study of vehicles engines functioning on data provided by the on-board computer”. MTA Review, vol. XXV, No. 1, Mar. 2015, pag. 77-84

G. Conferinte naționale și internaționale

1. Radu Vilau, Daniela Voicu, R-M Stoica, Laszlo Barothi, Functional analysis of pneumatic systems for automatic control, MVT-EAEC Timisoara, oct 2022
2. R M Stoica, D Voicu, R Vilau, L Barothi and L Deleanu, Bearings fault detection by means of frequency analysis, AITS 2021, IOP Conf. Series: Materials Science and Engineering, doi:10.1088/1757-899X/1220/1/012032
3. L Barothi, R M Stoica, D Voicu, R Vilau, L Deleanu, Study regarding the influence of geometrical characteristics of the distribution system on truck engines efficiency parameters, AITS 2021, IOP Conf. Series: Materials Science and Engineering, doi:10.1088/1757-899X/1220/1/012006
4. Diagnosis of mechanical parts by analyzing vibrations measured during operation, M M Udrea, D Voicu, R. M. Stoica, L Barothi, AITS 2021, IOP Conf. Series: Materials Science and Engineering, doi:10.1088/1757-899X/1220/1/012006
5. Stoica R. M., SIMIONESCU Marius, RĂDULESCU Virgiliu - Justinian, TROCAN Cătălin, MARDARI Viorel, COPAE Ion, Researches regarding automotive engine functioning, 6th International Conference "Computational Mechanics and Virtual Engineering" COMEC 2015, Brasov, october 2015, ISSN 2457-8541
6. STOICA R. M., Dinu I., Rădulescu V.- J., Trocan Cătălin, Mardari Viorel, Copae Ion, The study of automotive dynamics caught up in car crashes. 6th International Conference "Computational Mechanics and Virtual Engineering" COMEC 2015, Brasov, october 2015, ISSN 2457-8541
7. Stoica R. M., Marian-Eduard Rădulescu, Irinel Dinu, George Ene, Daniel Neagu and Ion Copae, The comparative study of engine vehicles functioning with petrol and liquefied petroleum gas. European Automotive Congress EAEC-ESFA, Bucharest, pg. 285-296,

november 2015, published in Proceedings of the European Automotive Congress EAEC-ESFA 2015, Springer International Publishing Switzerland, ISBN 978-3-319-27275-7 ISBN 978-3-319-27276-4 (eBook), DOI 10.1007/978-3-319-27276-4, 2016

8. Stoica R. M., Marian-Eduard Rădulescu, Irinel Dinu, George Ene, Daniel Neagu and Ion Copae, Uncertainty in the study of automotives dynamics and analysis and reconstruction of car crashes. European Automotive Congress EAEC-ESFA, Bucharest, pg. 431-442, november 2015, published in Proceedings of the European Automotive Congress EAEC-ESFA 2015, Springer International Publishing Switzerland, ISBN 978-3-319-27275-7 ISBN 978-3-319-27276-4 (eBook), DOI 10.1007/978-3-319-27276-4, 2016

9. Constantin-Corneliu Mînzatu, George Ene, Marian-Eduard Rădulescu, Irinel Dinu, Marius Simionescu, Stoica R. M., Criteria for assessing the energy efficiency of motor vehicles, 3rd International Congress "Science and Management of Automotive and Transportation engineering" SMAT 2014, Craiova, 23-25 October

10. C.-C. Mînzatu, George Ene, Marian-Eduard Rădulescu, Irinel Dinu, M. Simionescu, Stoica R. M., Considerations relating to active safety of automobiles. 3rd International Congress "Science and Management of Automotive and Transportation engineering" SMAT 2014, Craiova, 23-25 October

H. Reviste naționale

1. Rădulescu Marian-Eduard, Stoica R. M., Ene George, Dinu Irinel, Simionescu Marius, Copae Ion "Studiul dinamicii autovehiculelor implicate în accidente rutiere". Buletin documentar "Expertiza tehnică", nr. 28, iunie 2015, pag. 16-31, Corpul experților tehnici din România (CET-R), București, 2015

I. Alte documente

1. Stoica Ramona-Monica, "Analiza comparativă a eficienței energetice a motorului". Raport de cercetare științifică nr.3, Academia Tehnică Militară, București, iulie 2016

2. Stoica Ramona-Monica, "Studiul comparativ al influenței unor factori asupra funcționării motorului". Raport de cercetare științifică nr.2, Academia Tehnică Militară, București, martie 2016

3. Stoica Ramona-Monica, Analiza funcțională comparativă a motorului. Raport de cercetare științifică nr.1, Academia Tehnică Militară, București, iunie 2015