

**LISTA COMPLETĂ DE LUCRĂRI ȘTIINȚIFICE**

Conferențiar Dr. Ing. Călin Doru ICLODEAN

A. LISTA CELOR MAXIMUM 10 LUCRĂRI CONSIDERATE DE CANDIDAT A FI CELE MAI RELEVANTE PENTRU REALIZĂRILE PROFESIONALE PROPRII

1. Iclodean, C., Cordoș, N., Varga, B.O., Autonomous Shuttle Bus for Public Transportation: A Review, *Energies*, 2020, ISSN: 1996-1073; <https://doi.org/10.3390/en13112917>
2. Iclodean, C., Cordoș, N., Todoruț, A., Analysis of the Electric Bus Autonomy Depending on the Atmospheric Conditions, *Energies*, 2019, ISSN: 1996-1073; <https://doi.org/10.3390/en12234535>
3. Todoruț, A., Cordoș, N., Iclodean, C., Replacing the diesel buses with electric buses for sustainable public transportation and reduction the CO₂ emissions, *Polish Journal of Environmental Studies*, 2020, ISSN: 1230-1485; <https://doi.org/10.15244/pjoes/112899>
4. Iclodean, C., Varga, B.O., Burnete, N., Cimerdean, D., Jurchiș, B., Comparison of different battery types for electric vehicles, *The International Congress of Automotive and Transport Engineering*, 2017, IOP Conference Series: Materials Science and Engineering; <https://doi.org/10.1088/1757-899X/252/1/012058>
5. Iclodean, C.D., Iclodean, C.D., Energetic Efficiency Evaluation of the Lunar Roving Vehicles Using Computer Simulation, *TEM Journal*, Volume 7, Issue 4, Pages 937-943, 2018, ISSN: 2217-8309, <https://dx.doi.org/10.18421/TEM74-35>
6. Mariașiu, F., Burnete, N.V., Moldovanu, D., Varga, B.O., Iclodean, C., Kocsis, L., Effects of bioethanol ultrasonic generated aerosols application on diesel engine performances, *Thermal Science*, 2015, ISSN: 0354-9836, <https://doi.org/10.2298/TSCI140703108M>
7. Oprea, C.A., Iclodean, C., Chirca, M., Dranca, M., Ghita, F., Breban, S., Initial Evaluation of Permanent Magnet Synchronous Motor Structures for Light Electric Vehicle Applications, *IEEE 28th International Symposium on Industrial Electronics (ISIE)*, June 2019, Vancouver, Canada, Pages 342-347, <https://doi.org/10.1109/ISIE.2019.8781440>
8. Cimerdean, D., Burnete, N., Iclodean, C., Assessment of Life Cycle Cost for a Plug-in Hybrid Electric Vehicle, *Proceedings of the 4th International Congress of Automotive and Transport Engineering*, 2018, pp. 273-290, Springer International Publishing, ISBN: 978-3-319-94408-1, https://doi.org/10.1007/978-3-319-94409-8_32
9. Varga, B., Burnete, N., Iclodean, C., Validation Procedure for Worldwide Harmonized Light Vehicles Test Cycle via Hardware in the Loop - Real Time Testing, *International Congress of Automotive and Transport Engineering*, 2016, pp. 128-135, Springer International Publishing, ISBN: 978-3-319-45447-4, https://doi.org/10.1007/978-3-319-45447-4_14
10. Varga, B.O., Iclodean, C., Numerical investigation of hybrid electric vehicle's performance, *Applied Mechanics and Materials*, Vol. 822, 2016, pp. 272-284, ISSN: 1662-7482, Trans Tech Publications, Switzerland, <https://doi.org/10.4028/www.scientific.net/AMM.822.272>

**B. TEZA DE DOCTORAT**

Studii și cercetări privind influența parametrilor gestionați de către unitatea electronică de control asupra performanțelor motoarelor cu ardere internă care funcționează cu combustibili alternativi (Studies and research regarding the influence of parameters which are managed by the electronic control unit of an internal combustion engine that works with alternative fuels)

Conducător științific Prof. dr. ing. Nicolae Burnete, doctor prin Ordinul Ministerului Educației Naționale 5581 MD 03.12.2013.

C. BREVETE DE INVENȚIE ȘI ALTE TITLURI DE PROPRIETATE INDUSTRIALĂ

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D. CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

Iclodean, C., Interconectarea sistemelor virtuale de comandă și control pentru autovehicule, Volumul I, Software-in-the-Loop, Editura Risoprint, Colecția Scientia, Cluj-Napoca, 2018, ISBN: 978-973-53-2252-6.

Iclodean, C., Rețele de comunicație pentru autovehicule, Editura Risoprint, Colecția Scientia, Cluj-Napoca, 2017, ISBN: 978-973-53-1992-2.

Iclodean, C., Informatică pentru Transporturi, Editura Napoca Star, Cluj-Napoca, 2017, ISBN: 978-606-690-517-6.

Varga, B.O., Iclodean, C., Mariașiu, F., Electric and Hybrid Buses for Urban Transport - Energy Efficiency Strategies, ISBN: 978-3-319-41249-8, © Springer International Publishing Switzerland, 2016, DOI: 10.1007/978-3-319-41249-8.

Iclodean, C., Varga, B.O., Metode de Simulare a Sistemelor de Propulsie prin Aplicații Numerice, Editura Risoprint, Cluj-Napoca, 2016, ISBN: 978-973-53-1790-4.

Mariașiu, F., Iclodean, C., Aplicații Numerice în Simularea Proceselor Motoarelor cu Ardere Internă, Editura UTPRESS (online), Cluj-Napoca, 2016, ISBN: 978-606-737-154-3.

Varga, B.O., Moldovanu D., Mariașiu, F. Iclodean C.D., Modeling and Simulation for Electric Vehicle Applications – Chapter: Simulation in the Loop of Electric Vehicles, Intech, edited by Mohamed Amine Fakhfakh, 2016, ISBN: 978-953-51-4819-7.

Varga, B.O., Mariașiu, F., Moldovanu, D., Iclodean, C., Electric and Plug-In Hybrid Vehicles – Advanced Simulation Methodologies, ISBN: 978-3-319-18638-2, © Springer International Publishing Switzerland, 2015, DOI: 10.1007/978-3-319-18639-9.

Mariașiu, F., Iclodean, C. Managementul Motoarelor cu Ardere Internă, Editura Risoprint, Cluj-Napoca, 2013, ISBN: 978-973-53-1004-2.

**E. ARTICOLE/STUDII IN EXTENSO, PUBLICATE ÎN REVISTE DIN FLUXUL ȘTIINȚIFIC INTERNAȚIONAL PRINCIPAL**

Iclodean, C., Cordoș, N., Varga, B.O., Autonomous Shuttle Bus for Public Transportation: A Review, Energies, 2020, ISSN: 1996-1073; <https://doi.org/10.3390/en13112917>

Todoruț, A., Cordoș, N., Iclodean, C., Replacing the diesel buses with electric buses for sustainable public transportation and reduction the CO₂ emissions, Polish Journal of Environmental Studies 2020, ISSN: 1230-1485; <https://doi.org/10.15244/pjoes/112899>

Iclodean, C., Cordoș, N., Todoruț, A., Analysis of the Electric Bus Autonomy Depending on the Atmospheric Conditions, Energies, 2019, ISSN: 1996-1073; <https://doi.org/10.3390/en12234535>

Iclodean, C.D., Iclodean, C.D., Energetic Efficiency Evaluation of the Lunar Roving Vehicles Using Computer Simulation, TEM Journal, Volume 7, Issue 4, Pages 937-943, November 2018, ISSN: 2217-8309, <https://dx.doi.org/10.18421/TEM74-35>

Mariașiu, F., Burnete, N.V., Moldovanu, D., Varga, B.O., Iclodean, C., Kocsis, L., Effects of bioethanol ultrasonic generated aerosols application on diesel engine performances, Thermal Science, 2015, ISSN: 0354-9836, <https://doi.org/10.2298/TSCI140703108M>

Varga, B.O., Iclodean, C., Numerical investigation of hybrid electric vehicle's performance, Applied Mechanics and Materials, Vol. 822, 2016, pp. 272-284, ISSN: 1662-7482, Trans Tech Publications, Switzerland, <https://doi.org/10.4028/www.scientific.net/AMM.822.272>

Iclodean, C., Mariașiu, F., Possibility to Increase Biofuels Energy Efficiency used for Compression Ignition Engines Fueling, TEM Journal – Technology, Education, Management, Informatics, Serbia, No. 3(1), 2014, pp. 36-41, ISSN: 2217-8333, http://tem-journal.com/documents/vol3no1/TemJournalFebruary2014_36_41.pdf

F. PUBLICAȚII IN EXTENSO, APĂRUTE ÎN LUCRĂRI ALE PRINCIPALELOR CONFERINȚE INTERNAȚIONALE DE SPECIALITATE

Cordoș, N., Todoruț, A., Iclodean, C., Barabas, I., Influence of the Dynamic Vehicle Load on the Power Losses Required to Overcoming the Rolling Resistance, The 30th SIAR International Congress SMAT 2019, pp. 195-202, Springer International Publishing, ISBN: 978-3-030-32563-3, https://doi.org/10.1007/978-3-030-32564-0_23

Oprea, C.A., Iclodean, C., Chirca, M., Dranca, M., Ghita, F., Breban, S., Initial Evaluation of Permanent Magnet Synchronous Motor Structures for Light Electric Vehicle Applications, IEEE 28th International Symposium on Industrial Electronics (ISIE), June 2019, Vancouver, Canada, Pages 342-347, <https://doi.org/10.1109/ISIE.2019.8781440>

Cimerdean, D., Burnete, N., Iclodean, C., Assessment of Life Cycle Cost for a Plug-in Hybrid Electric Vehicle, Proceedings of the 4th International Congress of Automotive and Transport Engineering,



2018, pp. 273-290, Springer International Publishing, ISBN: 978-3-319-94408-1, https://doi.org/10.1007/978-3-319-94409-8_32

Jurchiș, B.M., Burnete, N., Burnete, N.V., Iclodean, C.D., Particulate matter emission characteristics for a compression ignition engine fueled with a blend of biodiesel and diesel, IOP Conference Series Materials Science and Engineering, 2018, Volume 444, Automotive. Engine and Transmission. Road Safety, ISSN: 1757-899X, <https://doi.org/10.1088/1757-899X/444/7/072012>

Iclodean, C., Solcan, V., Crăciunescu, M., Mariașiu, F., Jurchiș, B., Control of Injection Process Using Irate Injection Law on Single Cylinder Diesel Engine's by Numerical Simulation, Proceedings of the 4th International Congress of Automotive and Transport Engineering, 2018, pp. 40-51, Springer International Publishing, ISBN: 978-3-319-94408-1, https://doi.org/10.1007/978-3-319-94409-8_5

Moldovanu, D., Varga, B.O., Mariașiu, F., Iclodean, C., Burnete, N.V., Mihali, L., Ola, S., Van Dynamics Performance Analysis for Different Battery Pack Placement, Proceedings of the 4th International Congress of Automotive and Transport Engineering, 2018, pp. 338-345, Springer International Publishing, ISBN: 978-3-319-94408-1, https://doi.org/10.1007/978-3-319-94409-8_38

Iclodean, C., Varga, B.O., Burnete, N., Cimerdean, D., Jurchiș, B., Comparison of different battery types for electric vehicles, The International Congress of Automotive and Transport Engineering, 2017, IOP Conference Series: Materials Science and Engineering; <https://doi.org/10.1088/1757-899X/252/1/012058>

Burnete, N.V., Burnete, N., Jurchiș, B., Iclodean, C., Influences of diesel pilot injection on ethanol autoignition - a numerical analysis, The International Congress of Automotive and Transport Engineering, 2017, IOP Conference Series: Materials Science and Engineering; <https://doi.org/10.1088/1757-899X/252/1/012066>

Jurchiș, B., Burnete, N., Iclodean, C., Burnete, N.V., Study of emissions for a compression ignition engine fueled with a mix of DME and diesel, The International Congress of Automotive and Transport Engineering, 2017, IOP Conference Series: Materials Science and Engineering; <https://doi.org/10.1088/1757-899X/252/1/012065>

Varga, B., Burnete, N., Iclodean, C., Validation Procedure for Worldwide Harmonized Light Vehicles Test Cycle via Hardware in the Loop - Real Time Testing, International Congress of Automotive and Transport Engineering, 2016, pp. 128-135, Springer International Publishing, ISBN: 978-3-319-45447-4, https://doi.org/10.1007/978-3-319-45447-4_14

Burnete, N.V., Iclodean, C., Moldovanu, D., Filip, N., Direct Injection of Diesel and Ethanol in a Diesel Engine - A Numerical Analysis, International Congress of Automotive and Transport Engineering, 2016, pp. 379-386, Springer International Publishing, ISBN: 978-3-319-45447-4, https://doi.org/10.1007/978-3-319-45447-4_42



Burnete, N.V., Iclodean, C., Popescu, G., Filip, N., The Effects of a Diesel-Ethanol Blend Without Additives on Diesel Engine Operation, International Congress of Automotive and Transport Engineering, 2016, pp. 387-394, Springer International, ISBN: 978-3-319-45447-4, https://doi.org/10.1007/978-3-319-45447-4_43

G. ALTE LUCRĂRI ȘI CONTRIBUȚII ȘTIINȚIFICE

Varga, B.O., Iclodean, C., Electric buses for urban transportation: assessments on cost, infrastructure and exploitation, Annals of the Oradea University, Fascicle of Management and Technological, Vol. XXIV, 2015, ISSN: 1583-0691, <http://imt.uoradea.ro/auo.fmte/doi.php?doi=10.15660/AUOFMTE.2015-1.3094>

Varga, B.O., Iclodean, C., Advanced research methods of hybrid electric vehicles' performances, Acta Electrotehnica Journal, Cluj-Napoca, No. 1 - 2, 2015, ISSN: 2344 - 5637, https://ie.utcluj.ro/files/acta/2015/Number1-2/paper19_Varga.pdf

Burnete, N.V., Iclodean, C., Advanced Computer Simulation Methods of C.I. Engines Processes. Surrogate Models, Journal Ingineria Automobilului, Vol. 8, nr. 1 (30), 2014, pp. 17-21, ISSN: 2284-5690, http://www.ingineria-automobilului.ro/reviste/Ingineria_30_en.pdf

Iclodean, C., Burnete, N., Influence of the Electronic Control Unit on Optimization Function of the Compression Ignition Engines Powered with Biofuels, Annals of Faculty Engineering Hunedoara - International Journal of Engineering, Tome XI, Fasc. 3, 2013, ISSN: 1584-2665, <http://annals.fih.upt.ro/pdf-full/2013/ANNALS-2013-3-11.pdf>

Iclodean, C., Burnete, N., Simulations of a Compression Ignition Engine Powered by Different Fuel Blends when Changing Injection Parameters, Ingineria Automobilului, No. 29, 2013, ISSN: 2284-5690, http://www.ingineria-automobilului.ro/reviste/Ingineria_29_en.pdf

Iclodean, C., Burnete, N., Varga, B.O., Simulation of pollutant emission for compression ignition engine fueled with biofuels using computer simulation with two combustion models, Annals of the Oradea University, Management and Technological Engineering, Vol. XXII, 2013, ISSN: 1583-0691, <https://doi.org/10.15660/AUOFMTE.2013-1.2796>

Iclodean, C., Burnete, N., Computer Simulation of CI Engines Fuelled with Biofuels by Modelling Injection iRate Law, Research Journal of Agricultural Science, No. 44 (1), 2012, ISSN: 2066-1843, https://www.rjas.ro/paper_detail/1331

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