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**Habilitation thesis title:** *Applications of the experimentally-based, parametric and nonparametric mathematical models in automotive diagnose and design*

**Domain:** *Automotive Engineering*

## PUBLICATIONS LIST

### RELEVANT PAPERS

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1. **Marin Marinescu**, Radu Vilău, Marian Truță, Valentin Vînturiș, Octavian Fieraru - *Theoretical and Data-Based Mathematical Model of a Special Vehicle Braking System* - "Periodical of Advanced Materials Research" Vol. 837/2014, pp. 428-433, ISSN 1022-6680 (print, cd), ISSN 1662-8985 (web), ISBN 978-3-03785-929-2, doi:10.4028/www.scientific.net/AMR.837.428, <https://www.scientific.net/AMR.837.428>
2. **Marin Marinescu**, Radu Vilău, Marian Truță - *High Order Spectral Analysis of a Measured Automotive Parameter* - Ingineria automobilului Review, Volume 7, Issue 4, Page 15-19, Published 2013; Revista "Ingineria automobilului", vol. 7, nr. 4(29) / 2013, pp. 15-19, ISSN 1842-4074 (tiparit), [https://siar.ro/wp-content/uploads/2014/02/RIA\\_29.pdf](https://siar.ro/wp-content/uploads/2014/02/RIA_29.pdf), ISSN 2284-5690 (electronic).
3. **Marin Marinescu**, Octavian Alexa, Radu Vilau, C-tin Ovidiu Ilie, Valentin Vinturis - *Drag phenomena within a torque converter driven automotive transmission - laminar flow approach* - "EAEC-ESFA The European Automotive Congress", Bucharest, Romania, 25-27 November 2015, Proceedings of the European Automotive Congress EAEC-ESFA 2015, Springer International Publishing Switzerland, 2016, Chapter 48, pp. 517-527, ISBN 978-3-319-27275-7, doi 10.1007/978-3-319-27276-4\_48, <https://www.springerprofessional.de/en/drag-phenomena-within-a-torque-converter-driven-automotive-trans/6888700>
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6. Constantin-Ovidiu Ilie, **Marin Marinescu**, Octavian Alexa, Daniela Voicu, Laszlo Barothi - *Correlation analysis - a data analysis tool in the vehicle dynamic modeling process* - Revista Ingineria Automobilului nr. 44 - sept. 2017, pg. 9-12, ISSN 2457-5275, WOS:000424398000004, [https://siar.ro/wp-content/uploads/2017/10/RIA\\_44-september-2017.pdf](https://siar.ro/wp-content/uploads/2017/10/RIA_44-september-2017.pdf)
7. Octavian Alexa, **Marin Marinescu**, Marian Truta, Danut Grosu, Valentin Vinturis - *Analyzing the interdependence between a 4x4 automobile's slip and the self-generated torque within its transmission* - Advanced Materials Research Vol. 1036 (2014) pp 529-534, Trans Tech Publications, Switzerland, ISBN 978-3-03835-255-6, doi:10.4028/www.scientific.net/AMR.1036.529 <https://www.scientific.net/AMR.1036.529>

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9. Daniela Voicu, Ramona Monica Stoica, Radu Vilău, **Marin Marinescu**, Angela Digulescu, Cristina Despina-Stoian, Florin Popescu - *Frequency analysis of vibrations in terms of human exposure while driving military armoured personnel carriers and logistic transportation vehicles* - Microwave and Wireless Communications - Electronics (2023), ISSN 2079-9292, ISI (MDPI), Journal Electronics, Volume12, Issue14, DOI10.3390/electronics12143152, WOS:001035019500001, <https://www.mdpi.com/2079-9292/12/14/3152>
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## PHD THESIS

Title: *Considerations regarding the power flow within the transmission of the all-driven wheels vehicles of the Ministry of Defense*, Military Technical Academy, 14.06.1999. PhD in Engineering Sciences, field of "Motor Vehicles and Tractors" according to Order of Ministry of National Education no. 4127/22.07.1999

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4. Puncioiu, Alin; Truta, Marian; Vedinas, Ioan; **Marinescu, Marin**; Vinturis, Valentin - *Analysis of heat conduction in a drum brake system of the wheeled armored personnel carriers* - Modern Technologies in Industrial Engineering (ModTech2015), IOP Publishing, Journal of Physics Conference Series: Materials Science and Engineering, vol. 95 (2015), art. no. 012039, DOI: 10.1088/1757-899X/95/1/012039. Conference: 3rd International Conference on Modern Technologies in Industrial Engineering (ModTech), Location: Mamaia, ROMANIA, Date: JUN 17-20, 2015, WOS:000365128900039 - **ISI (Scopus)**
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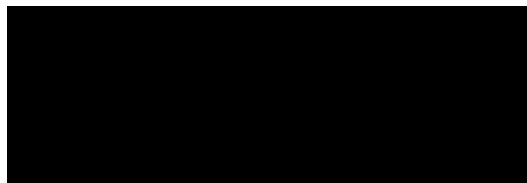
#### OTHER PAPERS / RELEVANT ACHIEVEMENTS

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1. *Water-surface navigating periscope for APC PIRANHA IIIC* (Technical study, design, manufacturing, testing) - pos. 61/PSCD/2017 - 9975,82 lei (*contract manager*)
2. *Light patrol and intervention vehicle - AUTPI v.2* - Technical consulting protocol nr. L6458/12.06.2017 CLI; A2843/2017 ATM - 59537,82 lei (*contract manger*)

3. *Designing / creating an e-learning platform. Providing training services in implementing and using the e-learning platform* - FATII-ARTRII Bucuresti, contract no. A-11110/23.11.2020 - 122500,00 lei (*contract manager*)\*
4. *Technical support contract* - FATII-ARTRII Bucuresti, contract no. 8/11.05.2023 Tehnobot Consulting SRL - 85000,00 lei (*contract manager*)\*
5. *Studies and experimental research concerning the use of a single additive fuel for military vehicles (F34)*. 2004-2006. Contract no. 2047/2004, RELANSIN - AMCSIT - 165752,15 lei (*team member*)
6. *Technologic demonstrator for the direct operational prototype "B33 ZIMBRU"* - 2002-2003, contract no. 1636/2002, RELANSIN, AMCSIT  
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7. *Technical studies concerning militarizing the DACIA DUSTER platforms* - perioada 2017, poz. 14/PSCDI al MApN 2017, contract no. A2/2699/14.04.2017, Department for Armaments - 3000,00 lei (*team member*)

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\* contracting with a civilian private contractor