

Universitatea Națională de Știință și Tehnologie POLITEHNICA București

Facultatea: Inginerie Industrială și Robotică

Departamentul: Teoria Mecanismelor și a Roboților

Nume Prenume: Antonescu Ovidiu

Gradul didactic: Conferențiar

L I S T A

lucrărilor științifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

A1. T1. Antonescu, O., *Contribuții la cercetarea teoretică și experimentală a transmisiilor mecanice variabile utilizate la autovehiculele rutiere*, 168 pg, 1997-2001

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1^o Cărți publicate (Ca, Cb, Cc), îndrumare publicate (I1, I2 etc.), capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc. (D1, D2 etc.), după caz, prin care se aduc contribuții la asigurarea și perfecționarea activităților didactice/profesionale.

B1. C1. Antonescu, O., Antonescu, P., *Mechanism and Machine Science* – coursebook, Politehnica Press, Bucharest, ISBN 978-606-515-699-9, 279 pg., 2016

B2. D1. Antonescu, O., Geonea, I., Antonescu, P., *Review on mechanisms used as handbrake in carriages and locomotives*, The 11th IFToMM International Symposium on Science of Mechanisms and Machines, Editor Ion Visa, Series: Mechanisms and Machine Science, Vol. 18, Senior ed. Marco Ceccarelli, Springer International Publishing Switzerland 2014, ISSN 2211-0984, ISBN 978-3-319-01844-7, pp. 523-530, 550 pg., 2014

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1^o Articole/studii publicate: a) în reviste de specialitate de circulație internațională recunoscute cotate ISI sau indexate în baze de date internaționale specifice domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță (Ris); b) în alte reviste de specialitate de circulație internațională (Rio); c) în reviste din țară recunoscute C.N.C.S.I.S. (Rns); d) în alte reviste de specialitate de circulație națională (Rno); b,c,d-inclusiv indexate în baze de date internaționale recunoscute.

Obs. – Grupe distincte, în ordinea de mai sus.

C1. Ris1. Antonescu, D., Iozsa, D., **Antonescu, O.**, Fratila, Gh., *Research on geometric and kinematic analyses of some auxiliary mechanisms used on urban buses*, Revista Ingineria Automobilelor (RIA), nr. 47 / Iunie 2018, **ISI Web of Science – Science Citation Index Expanded**, ISBN 978-606-13-4220-4, WOS 000450557500004, pp. 14-18, 2018

C2. Rio1. Antonescu, O., Valeanu, D., Cotoc, I., Cambosie, A.J., Antonescu, P., *Synthesis of a complex mechanism of a quadruped mobile robot*, Acta Technica Napocensis, Series: Applied Mathematics, Mechanics, and Engineering, vol. 68, issue 2, **Copernicus Index (BDI)**, ISSN 1221 – 5872, pp. 381-386, 2025

C3. Rio2. Antonescu, O., Valeanu, D., Antonescu, D., Strimbeanu, M., *Mobile robots on 4, 6 or 8 wheels adapted for uneven terrain*, Robotica & Management – International Journal, vol. 28, no. 1, **Copernicus Index (BDI)**, ISSN 1453-2069, pp. 4-8, 2023

C4. Rio3. Antonescu, O., Trofimescu, M., Brezeanu, C., *A functional model of a serial robot*, Robotica & Management – International Journal, vol. 23, no. 2, **Copernicus Index (BDI)**, ISSN 1453-2069, pp. 3-8, 2018

C5. Rio4. Robu (Nan), C., **Antonescu, O.**, Firouzi, G., *New planar mechanisms for the legs of quadruped mobile robots*, Robotica & Management – International Journal, vol. 23, no. 2, **Copernicus Index (BDI)**, ISSN 1453-2069, pp. 27-31, 2018

C6. Rio5. Robu (Nan), C., Brezeanu, C., **Antonescu, O.**, *Comparative study of the horse limbs and their modeled biomechanisms*, Robotica & Management – International Journal, vol. 23, no. 1, **Copernicus Index (BDI)**, ISSN 1453-2069, pp. 25-30, 2018

C7. Rio6. **Antonescu, O.**, Antonescu, P., *6-DOF manipulator with three parallel pentalateral kinematic chains*, Robotica & Management – International Journal, vol. 18, no. 1, **Copernicus Index (BDI)**, ISSN 1453-2069, pp. 7-12, 2013

C8. Rio7. Strimbeanu, M., **Antonescu, O.**, *Geometry and statics of a planar mechanism as complex manipulator*, Robotica & Management – International Journal, vol. 18, no. 1, ISSN 1453-2069, **Copernicus Index (BDI)**, pp. 48-53, 2013

2^o Articole/studii publicate în volumele unor manifestări științifice: a) internaționale recunoscute (cu ISSN sau ISBN) din țară și din străinătate (Vi) și b) naționale (Vn), inclusiv cotate ISI sau indexate în baze de date internaționale.

Obs. – Grupe distincte, în ordinea de mai sus.

C9. Vi1. **Antonescu, O.**, Valeanu, D., Antonescu, D., Strimbeanu, M., *The complex mechanism synthesis of the quadruped mobile robot legs*, In: Doroftei, I., Lovasz, EC. (eds) *New Advances in Mechanisms, Mechanical Transmissions and Robotics, MTM&Robotics 2024, Mechanisms and Machine Science*, vol 178, Springer, Cham., **ISI Web of Science – Science Citation Index Expanded**, ISSN 2211-0984, ISSN 2211-0992 (electronic), ISBN 978-3-031-87536-6, ISBN 978-3-031-87537-3 (eBook), WOS 001512809900019, https://doi.org/10.1007/978-3-031-87537-3_19, pp. 181-190, 2025

C10. Vi2. **Antonescu, O.**, Ungureanu, L., Radu, C.E., Raschitor, E., Antonescu, P., *Structure and geometrical modeling of parallel manipulators used in amusement parks*, *Annals of the „Constantin Brancusi” University of Targu Jiu, Engineering Series*, No. 1/2025, *Fiability & Durability*, “Academia Brancusi” Publishing, Targu Jiu, Romania, **DOAJ Index (BDI)**, ISSN-L 1844-640X, pp. 27-33, 2025

C11. Vi3. **Antonescu, O.**, Antonescu, D., Ionita, A., *Contributions to the synthesis of the windshield wiper mechanism with one rocker-slider blade*, *Advances in Mechanism and Machine Science*, ESFA-2023 The X-th Congress of Economicity, Safety and Reliability for Motor Vehicles, Bucharest, Romania, Nov. 2-4, IOP Conf. Series: Materials Science and Engineering, vol. 1303 (2024) 012042, 8 pages, Edited by Iozsa, M.D., Toma, M.F., Fratila, Gh., IOP Publishing, Paper - Open Access, **Google Scholar Index (BDI)**, ISSN 1757-899X, 2024

C12. Vi4. **Antonescu, O.**, Antonescu, D., Ionita, A., *Kinematic analysis of the windshield wiper mechanism with two parallel rocker blades*, *Advances in Mechanism and Machine Science*, ESFA-2023 The X-th Congress of Economicity, Safety and Reliability for Motor Vehicles, Bucharest, Romania, Nov. 2-4, IOP Conf. Series: Materials Science and Engineering, vol. 1303 (2024) 012041, 8 pages, Edited by Iozsa, M.D., Toma, M.F., Fratila, Gh., IOP Publishing, Paper - Open Access, **Google Scholar Index (BDI)**, ISSN 1757-899X, 2024

C13. Vi5. **Antonescu, O.**, Valeanu, D., Antonescu, D., Strimbeanu, M., *Contributions to the geometric synthesis of the windshield wiper mechanism with rocker-slider blade*, *Advances in Mechanism and Machine Science*, *Proceedings of the 16th IFToMM World Congress 2023 – Volume 3*, Editor Masafumi Okada, Series: Mechanisms and Machine Science, Vol. 149, Series ed. Marco Ceccarelli, Springer Nature Switzerland AG, **Springer Index (BDI)**, ISSN 2211-0984, ISBN 978-3-031-45708-1, pp. 404-413, 1026 pages, 2024

C14. Vi6. **Antonescu, O.**, Valeanu, D., Antonescu, D., *Elevating platforms with hydraulic/pneumatic actuation for automotive maintenance*, *Proceedings of SYROM 2022 & ROBOTICS 2022, 13th IFToMM International Symposium on Science of Mechanisms and Machines (SYROM 2022) & XXV International Conference on Robotics (ROBOTICS 2022)*, Editors Ioan Doroftei, Mircea Nitulescu, Doina Pisla and Erwin-Christian Lovasz, Series: Mechanisms and Machine Science, Vol. 127, Series ed. Marco Ceccarelli, Springer Nature Switzerland AG, **Springer Index (BDI)**, ISBN 978-3-031-25654-7, pp. 77-86, 424 pages, 2023

C15. Vi7. **Antonescu, O.**, Valeanu, D., Antonescu, P., *Mobile robots on adapted wheels for stair climbing*, *Proceedings of SYROM 2022 & ROBOTICS 2022, 13th IFToMM International Symposium on Science of Mechanisms and Machines (SYROM 2022) & XXV International Conference on Robotics (ROBOTICS 2022)*, Editors Ioan Doroftei, Mircea Nitulescu, Doina Pisla and Erwin-Christian Lovasz, Series: Mechanisms and Machine Science, Vol. 127, Series ed. Marco Ceccarelli, Springer Nature Switzerland AG, **Springer Index (BDI)**, ISBN 978-3-031-25654-7, pp. 351-358, 424 pages, 2023

C16. Vi8. **Antonescu, O.**, Trofimescu, M., Antonescu, D., *Functional aspects regarding mobile robots on wheels and crawler belts*, *The 13th Symposium “Durability and Reliability of Mechanical Systems”, Fiability & Durability, Annals of the „Constantin Brancusi” University of Targu Jiu, Engineering Series*, No. 1(27)/2021, “Academia Brancusi” Publishing, Targu Jiu, Romania, **DOAJ Index (BDI)**, ISSN 2344-3669, ISSN-L 1844-640X, pp. 14-21, 2021

C17. Vi9. **Antonescu, O.**, Trofimescu, M., Antonescu, P., *Structural and kinematic analyses of a model of serial robot*, *Fiability & Durability*, “Constantin Brancusi” University of Targu Jiu, 17 May, Issue: 1/2019, “Academia Brancusi” Publishing, Targu Jiu, Romania, **DOAJ Index (BDI)**, ISSN 1844-640X, pp. 30-36, 2019

- C18. Vi10. Antonescu, O.**, Popescu, I., Antonescu, D., *The structure and simulation of a retractable car hardtop mechanism*, *Fiability & Durability*, “Constantin Brancusi” University of Targu Jiu, 17 May, Issue: 1/2019, “Academia Brancusi” Publishing, Targu Jiu, Romania, **DOAJ Index (BDI)**, ISSN 1844-640X, pp. 37-43, 2019
- C19. Vi11. Antonescu, D.**, Iozsa, D., **Antonescu, O.**, Fratila, Gh., *Modeling and simulation of the specific mechanisms used in convertible automobiles*, Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018), Editors Nicolae Burnete and Bogdan Ovidiu Varga, Proceeding in Automotive Engineering series, Springer, **ISI Web of Science – Science Citation Index Expanded**, ISBN 978-3-319-94408-1, ISBN 978-3-319-94409-8 (eBook), WOS 000450557500004, https://doi.org/10.1007/978-3-319-94409-8_1, pp. 3-16, 2019
- C20. Vi12. Antonescu, D.**, Brezeanu, C., **Antonescu, O.**, *Topological structure of the actuating mechanisms of the urban bus doors*, New Advances in Mechanism and Machine Science, Proceedings of The 12th IFToMM International Symposium on Science of Mechanisms and Machines (SYROM 2017), Editors Ioan Doroftei, Cezar Oprișan, Doina Pislă and Erwin Christian Lovasz, Series: Mechanisms and Machine Science, Vol. 57, Series ed. Marco Ceccarelli, Springer International Publishing AG, part of the Springer Nature 2018, **Springer Index (BDI)**, ISSN 2211-0984, ISSN 2211-0992 (electronic), ISBN 978-3-319-79110-4, ISBN 978-3-319-79111-1 (eBook), http://doi.org/10.1007/978-3-319-79111-1_8, pp. 75-86, 534 pages, 2018
- C21. Vi13. Antonescu, D.**, Popescu, I., **Antonescu, O.**, *Geometric synthesis of the actuating mechanisms of the urban bus doors*, New Advances in Mechanism and Machine Science, Proceedings of The 12th IFToMM International Symposium on Science of Mechanisms and Machines (SYROM 2017), Editors Ioan Doroftei, Cezar Oprișan, Doina Pislă and Erwin Christian Lovasz, Series: Mechanisms and Machine Science, Vol. 57, Series ed. Marco Ceccarelli, Springer International Publishing AG, part of the Springer Nature 2018, **Springer Index (BDI)**, ISSN 2211-0984, ISSN 2211-0992 (electronic), ISBN 978-3-319-79110-4, ISBN 978-3-319-79111-1 (eBook), http://doi.org/10.1007/978-3-319-79111-1_9, pp. 87-98, 534 pages, 2018
- C22. Vi14. Antonescu, D.**, Iozsa, D., **Antonescu, O.**, Fratila, Gh., *Research on some auxiliary mechanisms used in passenger cars*, CAR2017 International Congress of Automotive and Transport Engineering – Mobility and Environment, Pitesti, Romania, Nov. 8-10, IOP Conf. Series: Materials Science and Engineering, vol. 252 (2017) 012028, Edited by Clenci, A., Tabacu, S., IOP Publishing, **ISI Web of Science – Science Citation Index Expanded**, ISSN 1757-8981, DOI 10.1088/1757-899X/252/1/012028, WOS 000419817200028, 8 pages, 2017
- C23. Vi15. Antonescu, O.**, Robu, C., Antonescu, P., *Structural synthesis of linkages for quadruped bio-robot legs*, 7th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2016, Iasi, Romania, June 9-10, IOP Conf. Series: Materials Science and Engineering, vol. 147 (2016) 012081, Edited by Doroftei, I., Popescu, A., Bujoreanu, C., IOP Publishing Ltd., England, **ISI Web of Science – Science Citation Index Expanded**, ISSN 1757-8981, DOI 10.1088/1757-899X/147/1/012081, WOS 000390720200081, 8 pag., 2016
- C24. Vi16. Antonescu, O.**, Robu (Nan), C., Antonescu, P., *Structural analysis, geometry and statics of a couch unfolding mechanism*, *Fiability & Durability*, Issue: Supplement No. 1/2016, “Academia Brancusi” Publishing, Targu-Jiu, Romania, May 2016, **DOAJ Index (BDI)**, ISSN 1844-640X, pp. 328-334, 2016
- C25. Vi17. Antonescu, O.**, *Metal pushing V-belt continuously variable transmissions (CVT) used in motor vehicles*, Current Solutions in Mechanical Engineering, Chapter 3: Automotive Engineering, Trans Tech Publications, Switzerland, Edited by Daniela Tarnita, Applied Mechanics and Materials Periodical, (Proceedings of the International Conference of Mechanical Engineering - ICOMME 2015, Oct. 8-9, Craiova, Romania), vol. 823 (2016), **Scientific.net Index (BDI)**, DOI:10.4028/www.scientific.net/AMM.823.229, ISBN 978-3-03835-566-3, pp. 229-234, 2016
- C26. Vi18. Antonescu, O.**, Brezeanu, C., Antonescu, P., *Synthesis of the mechanisms used for reverse driving on continuously variable transmissions (CVT)*, Current Solutions in Mechanical Engineering, Chapter 3: Automotive Engineering, Trans Tech Publications, Switzerland, Edited by Daniela Tarnita, Applied Mechanics and Materials Periodical, (Proceedings of the International Conference of Mechanical Engineering - ICOMME 2015, Oct. 8-9, Craiova, Romania), vol. 823 (2016), **Scientific.net Index (BDI)**, DOI:10.4028/www.scientific.net/AMM.823.223, ISBN 978-3-03835-566-3, pp. 223-228, 2016
- C27. Vi19. Antonescu, O.**, Brezeanu, C., Antonescu, P., *New mechanism of the circuit breaker with V arc extinguishing chamber*, Proceedings of the 14th IFToMM World Congress, Oct. 25-30, Taipei, Taiwan, (Session 67: Linkage & Mechanical Controls IV), vol. 4 of 5, **Scopus Index (BDI)**, ISBN 978-986-04-6098-8, DOI No.: 10.6567/IFToMM.14TH.WC.OS8.025, pp. 2472-2476, 2015
- C28. Vi20. Antonescu, O.**, Veliscu, V., Antonescu, D., *Planar mechanisms used for generating curve line translation motion*, *Fiability & Durability*, Issue no. 1/2015, “Academia Brancusi” Publishing, Targu-Jiu, Romania, May 2015, **DOAJ Index (BDI)**, ISSN 1844-640X, pp. 84-90, 2015
- C29. Vi21. Antonescu, O.**, Veliscu, V., Brezeanu, C., *The main types of mechanisms used as windshield wipers*, *Fiability & Durability*, Issue no. 1/2015, “Academia Brancusi” Publishing, Targu-Jiu, Romania, May 2015, **DOAJ Index (BDI)**, ISSN 1844-640X, pp. 91-98, 2015

C30. Vi22. Antonescu, P., **Antonescu, O.**, Brezeanu, C., *The geometry of the spatial four-bar mechanism and its particular forms*, *Fiability & Durability*, Issue no. 1/2015, “Academia Brancusi” Publishing, Targu-Jiu, Romania, May 2015, **DOAJ Index (BDI)**, ISSN 1844-640X, pp. 70-76, 2015

C31. Vi23. Popescu, I., **Antonescu, O.**, Antonescu, P., *Structural and geometrical analysis of the lifting manipulators for a gre5n environment*, *Fiability & Durability*, Issue no. 1/2015, “Academia Brancusi” Publishing, Targu-Jiu, Romania, May 2015, **DOAJ Index (BDI)**, ISSN 1844-640X, pp. 77-83, 2015

C32. Vi24. **Antonescu, O.**, Popescu, I., Antonescu, P., *Compounding of concurential rotation movements*, *Applied Mechanics and Materials periodical, Advanced Concepts in Mechanical Engineering I*, Edited by Ioan Doroftei, Cezar Oprisan and Aristotel Popescu, Trans Tech Publications, Switzerland, International Conference: ACME 2014, Iasi, Romania, Vol. 658, **Scopus Index (BDI)**, ISBN 978-3-03835-271-6, DOI 10.4028/www.scientific.net/AMM.658.9, pp. 9-16, 2014

C33. Vi25. **Antonescu, O.**, *Front stop lamps for a safer traffic*, *Proceedings of the FISITA 2012 World Automotive Congress, Volume 9: Automotive Safety Technology, Series: Lecture Notes in Electrical Engineering, Vol. 197, Part III Pedestrian Protection*, Editors: SAE-China, FISITA, Springer-Verlag Berlin Heidelberg 2013, **Springer Index (BDI)**, ISSN 1876-1100, ISBN 978-3-642-33804-5, DOI 10.1007/978-3-642-33805-2_25, ISSN 1876-1119 (electronic), ISBN 978-3-642-33805-2 (eBook), pp. 311- 314, 2013

D. Lucrări publicate în ultimii 10 anii în reviste și volume de conferințe cu referenți (neindexate)

- Reviste

- Selecție cu maximum 20 lucrări în volume de conferințe

E. Brevete obținute în întreaga activitate

E1. B1. **Antonescu, O.**, *Mecanism pentru imobilizarea autovehiculelor staționate*, OSIM – Buletinul Oficial de Proprietate Industrială, Secțiunea Brevete de Invenții, nr. 2 /2014, pp. 87, 2014, ISSN 2065-2100. Numărul de publicare este 123583 B1.

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Semnătura:

