



## Lista lucrărilor în publicații cu vizibilitate internațională, în ultimii 5 ani

### 2025

Antonya, C.; Tarulescu, R.; Tarulescu, S.; Butnariu, S. (2025) Defining the Optimal Characteristics of Autonomous Vehicles for Public Passenger Transport in European Cities with Constrained Urban Spaces, *Vehicles*, 37 pagini, 2025, 7, 125. <https://doi.org/10.3390/vehicles7040125>, FI - 2,2 (2025)

Dragu, V.; Ruscă, A.; Roșca, M.A. (2025) The Spatial Accessibility of High-Capacity Public Transport Networks—The Premise of Sustainable Development. *Sustainability* 2025, 17, 343. <https://doi.org/10.3390/su17010343>, WOS:001393849200001, IF 3,3 (Q2)

Dragu, V.; Oprea, F.C.; Roman, E.A. (2025) Assessment of Bucharest Metro Expansion and Its Correlation with the Territorial System. *Land* 2025, 14, 946. <https://doi.org/10.3390/land14050946>, WOS:001496756000001, IF 3,2 (Q2)

Dragu, V.; Roman, E.A.; Roșca, M.A.; Oprea, F.C.; Mironescu, A.-B.; Dinu, O.M. (2025) Integrated Information System for Parking Facilities Operations and Management. *Systems* 2025, 13, 769. <https://doi.org/10.3390/systems13090769>, WOS:001581021500001, IF 3.1

Dobrinou R.A.; Ionuț Cosmin Chiva; Augustin Semenescu; Rusca F.; Constantin Gheorghe Opran (2025) Modeling Pedestrian Flows for Designing a Transfer System with Moving Walkways, WILEY-VCH VERLAG GMBH, 2025, WOS:001510766200001, FI: 0.75

Mihăilescu, S., Boroiu, AA., Boroiu, A. (2025) Sustainable Public Transport Policies and Practices - A Comparative Study Across Mining Areas. In: Nathanail, E.G., Gavanis, N., Adamos, E. (eds) *Climate Crisis and Resilient Transportation Systems*. CSUM 2024. Lecture Notes in Intelligent Transportation and Infrastructure. Springer, Cham. WOS:001585182500043

Mircea, I.I.; Rosca, E.; Vlad, C.S.; Ivascu, L. (2025) Environmental and Behavioral Dimensions of Private Autonomous Vehicles in Sustainable Urban Mobility. *Clean Technol.* 2025, 7, 56. <https://doi.org/10.3390/cleantechnol7030056>

Raicu S., Costescu D., Popa M. (2025) Modelling Systems with a Finite-Capacity Queue: A Theoretical Investigation into the Design and Operation of Real Systems, *AppliedMath*, 5 (1), DOI10.3390/appliedmath5010017, WOS:001453569700001, IF 0.7

Roman, E.-A.; Stere, A.-S.; Roșca, E.; Radu, A.-V.; Codroiu, D.; Anamaria, I. (2025) State of the Art of Digital Twins in Improving Supply Chain Resilience. *Logistics* 2025, 9, 22. <https://doi.org/10.3390/logistics9010022>



Rosca, E.; Rusca, F.; Carlan, V.; Stefanov, O.; Dinu, O.; Rusca, A. (2025) Assessing the Influence of Equipment Reliability over the Activity Inside Maritime Container Terminals Through Discrete-Event Simulation. *Systems* 2025, 13, 213. <https://doi.org/10.3390/systems13030213>

Rosca, E.; Oprea, F.C.; Ilie, A.; Burciu, S.; Rusca, F. (2025) Automated Parcel Locker Configuration Using Discrete Event Simulation. *Systems* 2025, 13, 613. <https://doi.org/10.3390/systems1307061>

Rosca, M.A.; Oprea, F.C.; Dragu, V.; Dinu, O.M.; Costea, I.; Burciu, S. Evaluating the Impact of Automated Vehicle Penetration on Intersection Traffic Flow: A Microsimulation-Based Approach. *Systems* 2025, 13, 751. <https://doi.org/10.3390/systems13090751> WOS:001581001700001, IF 3.1

Stoica, A., Tarulescu, S., Elie, R., Juliana, R.R.V., Herizo, R., Popa, M. (2025). The Impact of Road Transport on the Level of CO<sub>2</sub> in Urban Areas. In: Chiru, A., Covaciu, D. (eds) CONAT 2024 International Congress of Automotive and Transport Engineering. CONAT 2024. Proceedings in Automotive Engineering. Springer, Cham. [https://doi.org/10.1007/978-3-031-77631-1\\_7](https://doi.org/10.1007/978-3-031-77631-1_7), WOS:001462624600007

Vilsan, A., Sandu, C., Anghelache, G., & Warfford, J. (2025). Methodology for Real-Time Hydroplaning Risk Estimation Using an Intelligent Tire System: An Analytical Approach. *Sensors*, 25(23), 7299. WOS:001635339900001, IF=3,5

## 2024

Dinu, O.; Rosca, E.; Burciu, S.; Oprea, C.; Ilie, A.; Stere, A.S.; Rusca, F. (2024) Integrative Framework for Platform-Based Business Models to Drive Climate Neutrality in Logistics. *Sustainability* 2024, 16, 1418. <https://doi.org/10.3390/su16041418>, WOS:001172231700001, IF=3,3

Moiescu, A.R., Anghelache, G. & Bureștea, D. (2024) Testing Rig for Laboratory Research of Tyre Pressure Transducers. The 13th CONAT Congress organized by Transilvania University, WOS:001462627900034

Oprea, C.; Rosca, M.; Rosca, E.; Costea, I.; Ilie, A.; Dinu, O.; Ruscă, A. (2024) Analyzing Passenger Flows in an Airport Terminal: A Discrete Simulation Model. *Computation* 2024, 12, 223. <https://doi.org/10.3390/computation12110223>, WOS:001364125400001, IF=1,9

Raicu Ș., Costescu Dorinela, Popa M. (2024) Improving the Functional Reliability of an Urban Public Transport Line, *Applied Sciences* 14(16), 2024, 7324. <https://doi.org/10.3390/app14167324> WOS:001305114500001, IF 2.5

Roosbeh E.G.; Mihaela Popa (2024) Robustness Assessment of the Metro System: A Case Study of Bucharest, Romania", *MDPI AG*, 237, WOS:001277545600001, IF2.3 (Q1)

Rosca, E.; Rusca, F.; Rosca, M.A.; Rusca, A. (2024) Performance Analysis of Automated Parcel Lockers in Urban Delivery: Combined Agent-Based–Monte Carlo Simulation Approach. *Logistics* 2024, 8, 61. <https://doi.org/10.3390/logistics8020061>, WOS:001256775200001, IF=3,6



## 2023

Boroiu, A.A., Titu, A.M., Boroiu, A., Dragomir, M., Pop, A.B., Titu, S. (2023) The Influence of Sample Size on Long-Term Performance of a  $6\sigma$  Process. Processes 2023, 11, 779.

<https://doi.org/10.3390/pr11030779>, WOS: 000960449800001, (Q2) IF = 3.352

Filimon, D.; Roșca, E.; Ruscă, F.V. (2023) Optimization of Fuel Consumption for an Offshore Supply Tug Using a Backtracking Algorithm. Sustainability 2023, 15, 15787.

<https://doi.org/10.3390/su152215787>, Q2, WOS:001119622900001. IF 3,9

Raicu, S.; Costescu, D.; Popa, M. (2023) Effects of the Queue Discipline on System Performance.

AppliedMath 2023, 3, 37-48. <https://doi.org/10.3390/appliedmath3010003>,

WOS:001268559800001, IF 0,7

Roșca E.; Ruscă F.; Oana Dinu; Ștefan Burciu; Cristina Oprea; Anamaria Ilie; Cătălin Coman (2023)

A Moderation effect of atmospheric conditions on PM2.5 traffic related concentration. Romanian Journal of Transport Infrastructure 2023, 12, 1 -17, Factor de impact = 0,1 WOS:001082100400003

## 2022

Costescu, D, Olteanu, S, Roman, EA (2022) Model for Bus Line Planning in an Intermodal Urban Transport Network, In Moldovan, L; Gligor, A (Eds)., 15TH INTERNATIONAL CONFERENCE INTERDISCIPLINARITY IN ENGINEERING. Book Series Lecture Notes in Networks and Systems, Vol.386, 2022, p. 672-683, DOI10.1007/978-3-030-93817-8\_60. WOS:000773080200060

Raicu S., Popa M., Costescu D. (2022) Uncertainties Influencing Transportation System Performances, Sustainability 2022, 14(13), 7660; 15 p. <https://doi.org/10.3390/su14137660>, WOS:000825694000001, Q2, IF 3,889

Roman, EA and Dragu, V (2022) Reducing Traffic Congestion Through Optimal Planning, 15th International Conference Interdisciplinarity in Engineering (INTER-ENG), Volume386, Page651-660, Published 2022, WOS:000773080200058

Rosca, M., Rosca, E., Oprea, C., Rusca, F., Dinu, O., Rusca, A. (2022) The Effects of New Infrastructure on Traffic Dynamics. An Urban Simulated-Based Model, The 15th International Conference Interdisciplinarity in Engineering: Conference Proceedings, 2022, WOS:000773080200023

Ruscă, F., Ruscă, A., Roșca, E., Coman, C., Burciu, S., Oprea, C. (2022) Evaluating the Influence of Data Entropy in the Use of a Smart Equipment for Traffic Management at Border Check Point, Machines 2022, 10(10), 937, WOS:000873052600001, FI = 2,899

Țîțu, A.M., Boroiu, A.A., Mihăilescu, S., Pop, A.B., Boroiu, A. (2022) Assessment of Road Noise Pollution in Urban Residential Areas — A Case Study in Pitești, Romania. Appl. Sci. 2022, 12, 4053, DOI:10.3390/app12084053, WOS:000785237200001 (Q2) IF = 2.679



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Țițu, A.M., Boroiu, A.A., Boroiu, A., Pop, A.B., Dragomir, M., Țițu, Ș. (2022) Reliability modelling through the three-parametric Weibull model based on Microsoft Excel facilities. Processes 2022, 10, DOI:10.3390/pr10081585, WOS: 000845743800001 (Q2) IF = 3.352

## 2021

Raicu Ș., Costescu Dorinela, Popa M., Dragu V. (2021) Dynamic Intercorrelations between Transport/Traffic Infrastructures and Territorial Systems: From Economic Growth to Sustainable Development, Sustainability, Volume13(21), 11951, DOI10.3390/su132111951, WOS:000758975800001 Q2, IF 3.251

Serban C., Carp D. (2021) Using Genetic Algorithms to Solve Discounted Generalized Transportation Problem, Studies in Informatics and Control, ISSN 1220-1766, vol. 30(3), pp. 29-38, 2021. <https://doi.org/10.24846/v30i3y202103>, WOS:000704288100003, IF 1,1