

Technical University of Cluj-Napoca  
Faculty of Civil Engineering  
**CFDP Department**  
Head of Works PhD. Eng. **Mihai Liviu DRAGOMIR**  
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Full list of works:

a) **List of maximum ten works considered to be most relevant to one's own professional achievements**

1. Millien Anne, **Dragomir M.L.**, Petit C., Iliescu M., Wendling L., Geogrid interlayer performance in pavements: tensile bending test for crack propagation, Proceedings of the 7th Rilem International Conference on Cracking in Pavements, Springer, [https://link.springer.com/chapter/10.1007/978-94-007-4566-7\\_115](https://link.springer.com/chapter/10.1007/978-94-007-4566-7_115);
2. **Dragomir M.L.**, Cadar R.D., Boitor M.R., Using an E-waste, a laboratory investigation, IOP Conference Series: Materials Science and Engineering, Vol.1138, International Conference Civil Engineering and Building Services (CIBv),2020, <https://doi.org/10.1088/1757-899X/1138/1/012022>
3. Cadar R.D., Boitor M.R., **Dragomir M.L.**, An analysis of reclaimed asphalt pavement from a single source, case study: a secondary road in Romania, *Sustainability*, 2022, 14 (12), 7052, <https://www.mdpi.com/2071-1050/14/12/7057>, **FI 3.9**
4. Corbu O.C., Puskas A., **Dragomir M.L.**, Har N., Toma I.O., Eco-Inovative concrete for infrastructure obtained with alternative aggregates and supplementary cementitious materials (SCM), *Coatings*, 2023, 13(10), 1710, <https://www.mdpi.com/2079-6412/13/10/1710> *în curs de indexare* **FI 3.4**
5. Nicula L.M., Manea D.L., Simedru D., Cadar O., **Dragomir M.L.**, Ardelean I., Corbu O., Potential role of GGBS and ACBFS Blast Furnace Slag at 90 days for application in rigid concrete pavements, *Materials*, 2023, 16(17), 5902, <https://www.mdpi.com/1996-1944/16/17/5902>, **FI 3.4**
6. Nicula L.M., Manea D.L., Simedru D., Cadar O., Ardelean I., **Dragomir M.L.**, The advantages on using GGBS and ACBFS aggregates to obtain an ecological road concrete, *Coatings*, 2023, 13 (8) 1368, <https://www.mdpi.com/2079-6412/13/8/1368> **FI 3.4**
7. Nicula L.M., Manea D.L., Simedru D., Cadar O., Becze A., **Dragomir M.L.**, The influence of Blast Furnace Slag on cement concrete road by microstructure characterization and assessment of physical-mechanical resistance at 150/480 days, *Materials*, 2023, 16 (9) 3332, <https://www.mdpi.com/1996-1944/16/9/3332> **FI 3.4**
8. Marusceac V., Danciu A.D., Ciotlaus M.A., **Dragomir, M.L.** (2023). Influence of Speed Brakers on Traffic Generated Noise Levels. *Journal of Applied Engineering Sciences*, 13(2) 253-258. <https://doi.org/10.2478/jaes-2023-0032>. **FI 1.1**
9. Danciu A.D., Guțiu Ș.I., Moga C., **Dragomir M.L.**, Ciotlăuș M., Marusceac V. (2023) A Review of the Network Arch Bridge. *Applied Sciences*, 2023, 13(19):10966, <https://doi.org/10.3390/app131910966> **FI 2.7**
10. Ciotlaus M., Kollo G., Fenesan C., Danciu A.D., **Dragomir M.L.**, Marusceac V. (2023). Rail Wear Evolution on Small-Radius Curves under Mixed Traffic Conditions, In-Field Investigations. *Applied Sciences*,2024, 14(1), 209; <https://doi.org/10.3390/app14010209>. **FI 2.7**

## 1. PhD thesis

### *Study of solutions for reinforcing flexible and semi-rigid road structures*

Scientific adviser: Prof. Dr. Ing. Iliescu Mihai, UTC-N

Thesis defended on the 21 September, 2012

Title confirmed by Order MECTS Nr. 3250MD/20.02.2013

<https://www.researchgate.net/publication/305032320> The study of reinforcement solutions over flexible and semirigid road structures

### b) Patents/intellectual property titles

This is not the case (currently)

### c) Books and chapters in books

d.1) Iliescu M., Clitan A.F., **Dragomir M.L.**, *Roads II*, Road Structures Road Infrastructure, 205 pages, Ed. UTPress, 2011, ISBN 978-973-662-989-1.

d.2) **Dragomir M.L.**, Road Design Guide - Theory and Applications for Student Use, 88 pages, Ed.RisoPrint Cluj-Napoca, 2021, ISBN 978-973-53-2821-4.

### d) Articles / studies in extenso, published in journals from the main international scientific stream

1. Cadar R.D., Boitor M.R., **Dragomir M.L.**, An analysis of reclaimed asphalt pavement from a single source, case study: a secondary road in Romania, *Sustainability*, 2022, 14 (12), 7052, <https://www.mdpi.com/2071-1050/14/12/7057> **FI 3.4**
2. Corbu O.C., Puskas A., **Dragomir M.L.**, Har N., Toma I.O., Eco-Inovative concrete for infrastructure obtained with alternative aggregates and supplementary cementitious materials (SCM), *Coatings*, 2023, 13(10), 1710, <https://www.mdpi.com/2079-6412/13/10/1710>, **FI 3.4** (Publicat 2023 - În curs de indexare)
3. Nicula L.M., Manea D.L., Simedru D., Cadar O., **Dragomir M.L.**, Ardelean I., Corbu O., Potential role of GGBS and ACBFS Blast Furnace Slag at 90 days for application in rigid concrete pavements, *Materials*, 2023, 16(17), 5902, <https://www.mdpi.com/1996-1944/16/17/5902> **FI 3.4**
4. Nicula L.M., Manea D.L., Simedru D., Cadar O., Ardelean I., **Dragomir M.L.**, The advantages on using GGBS and ACBFS aggregates to obtain an ecological road concrete, *Coatings*, 2023, 13 (8) 1368, <https://www.mdpi.com/2079-6412/13/8/1368> **FI 3.4**
5. Nicula L.M., Manea D.L., Simedru D., Cadar O., Becze A., **Dragomir M.L.**, The influence of Blast Furnace Slag on cement concrete road by microstructure characterization and assessment of

physical-mechanical resistance at 150/480 days, *Materials*, 2023, 16 (9) 3332, <https://www.mdpi.com/1996-1944/16/9/3332> **FI 3.4**

6. Gergely I.M., Ciocan R., **Dragomir M.L.**, Study on the optimization of design speed required by the need to reduce traffic pollution, *Romanian Journal of Transport Infrastructure*, 2022, 11(2), <https://doi.org/10.2478/rjti-2022-0009> **FI0.2**
7. Danciu A.D., Guțiu Ș.I., Moga C., **Dragomir M.L.**, Ciotlăuș M., Marusceac V. (2023) A Review of the Network Arch Bridge. *Applied Sciences*, 2023, 13(19):10966, <https://doi.org/10.3390/app131910966>. **FI 2.7** (2022)
8. Ciotlăuș M.A., Kollo G., Fenesan C., Danciu A.D., **Dragomir M.L.**, Marusceac V. (2023). Rail Wear Evolution on Small-Radius Curves under Mixed Traffic Conditions, In-Field Investigations. *Applied Sciences*, 2023, 14(1), 209; <https://doi.org/10.3390/app14010209>. **FI 2.7** (2022)
9. Marusceac V., Danciu A.D., Ciotlăuș M.A., **Dragomir, M.L.** (2023). Influence of Speed Brakers on Traffic Generated Noise Levels. *Journal of Applied Engineering Sciences*, 2023, 13(2) 253-258. <https://doi.org/10.2478/jaes-2023-0032>. **FI 2.7**

**e) Publications in extenso, published in papers of the main international specialized conferences**

1. Millien Anne, **Dragomir M.L.**, Petit C., Iliescu M., Wendling L., Geogrid interlayer performance in pavements: tensile bending test for crack propagation, Proceedings of the 7th Rilem International Conference on Cracking in Pavements, Springer, [https://link.springer.com/chapter/10.1007/978-94-007-4566-7\\_115](https://link.springer.com/chapter/10.1007/978-94-007-4566-7_115)
2. **Dragomir M.L.**, Cadar R.D., Boitor M.R., Using an E-waste, a laboratory investigation, IOP Conference Series: Materials Science and Engineering, Vol.1138, International Conference Civil Engineering and Building Services (CIBv),2020, <https://doi.org/10.1088/1757-899X/1138/1/012022>
3. Cadar D.R., Boitor M.L., **Dragomir M.L.**, Burduhos P.M., The speed-flow relationship on urban roads in a Romanian Town, 3rd World Multidisciplinary Civil Engineering, Architecture, Urban Planning Symposium (WMCAUS 2018), Praga, 2019 (indexat), IOP Conference Series: Materials Science and Engineering, Vol.471, <https://iopscience.iop.org/article/10.1088/1757-899X/471/6/062031>
4. Clitan AF, **Dragomir M.L.**, Ciotlăuș M.A., Beca I.M., Hoda G, Improving traffic conditions on a set of three intersections using microscopic simulation models, *Procedia Engineering*, 2017, Volume 181, 139-145, <https://doi.org/10.1016/j.proeng.2017.02.382>
5. Corbu, O., Anastasiu A., Baeră,C., Istoan, R, **Dragomir, M.L.**, Recycled Glass and PET Waste as Aggregates Replacement in Eco-Innovative Concrete for Alveolar Concrete Blocks, *1st Olympiad in Engineering Science - OES2023 Olympia, Greece, May 23-27, 2023*; Olympiad Conference Proceedings "Analytical and Experimental Methods in Mechanical and Civil Engineering; *Olympiad in Engineering Science (OES 2023)* is organized by the International OES Committee, and the European Consortium of Innovative Universities, ECIU, Aldemar Olympian Village, Greece- *în curs de indexare SCOPUS / SPRINGER* <https://www.uis.no/en/research/olympiad-in-engineering-science-oes-2023#/>
6. Danciu A.D., Moga C., Gutiu S.I., Ciotlăuș M.A., Marusceac V., **Dragomir M.L.** (2023), Dynamic response analysis of footbridges on hot-rolled steel girders for spans varying between 10 to 40m and width between 2 and 6 m, (2023), The 17th International Conference Interdisciplinarity in Engineering. INTER-ENG 2023, Târgu Mureș, Romania – *susținut public în curs de publicare/indexare*
7. Ciotlăuș M.A., Marusceac V., Danciu A.D., **Dragomir M.L.** (2023) Rail fastening maintenance impact on track stability for continuously welded rail tracks, The 17th International Conference

Interdisciplinarity in Engineering, INTER-ENG 2023, Târgu Mureș, Romania– *susținut public în curs de publicare/indexare*

8. Marusceac V., Ciotlaș M.A., Danciu A.D., **Dragomir M.L.** (2023) Optimizing Urban Planning to Alleviate Noise Pollution in Different Types of Intersections: A Case Study in Cluj-Napoca, The 17th International Conference Interdisciplinarity in Engineering, INTER-ENG 2023, Târgu Mureș, Romania– *susținut public în curs de publicare/indexare*

## f) Other scientific works and contributions

1. **Dragomir M.L.**, Clitan A.F., Pop N., Using the waste of polyester and glass fiber in cold recycling highways superstructures, Advanced Engineering Forum, 2017, <https://doi.org/10.4028/www.scientific.net/AEF.21.309>
2. **Nicula L.M.**, Manea D.L., Simețru D., **Dragomir M.L.**, Investigations related to the opportunity of using furnace slag in the composition of road cement concrete, 2023, European Journal of Materials Science and Engineering, Vol.8, Issue 3, pp.128-141, ISSN 2537-4338, <https://doi.org/10.36868/ejmse.2023.08.03.128>
3. Boboc A., Toma I.O., **Dragomir M.L.**, Elastic properties of recycled steel fiber roller compacted concrete after a decade of life service, 19<sup>th</sup> edition International Technical-Scientific e-Conference Modern Technologies for the 3<sup>rd</sup> Millennium, Oradea, 2020, <https://cloud.uoradea.ro/index.php/s/mrAJ9npHeGWazA3>
4. Scientific Paper: Composite Materials - 2nd place within SNCSS2004 - Student Scientific Communication Session - 2004, under the guidance of prof. dr. ing. Daniela Manea (collective authors: Mihai Liviu Dragomir, Luminita Molnar si Radu Fagarasan).
5. **Dragomir M.L.**, Integrated traffic current studies in Cluj-Napoca, National Traffic Safety Symposium, Cluj-Napoca, November 2009, ISSN 2068-749X, pg.59-66.
6. **Dragomir M.L.**, Boitor M.R., Modern solutions for protecting road embankments, National Symposium of new materials and technologies in construction and maintenance of roads and bridges, May 2010, ISSN 2068-2727, pg.45-52.
7. **Dragomir M.L.**, Red traffic lights, negative effect on traffic safety, National Traffic Safety Symposium, Cluj-Napoca, November 2010, ISSN 2068-749X, pg.150-160.
8. **Dragomir M.L.**, Oltean C., Reinforcement systems used to stop the phenomenon of reflective cracking, National Symposium of new materials and technologies in the construction and maintenance of roads and bridges, May 2011, ISSN 2068-2727, pg.5-18.
9. **Dragomir M.L.**, Marusceac V., Modern street design for signaling pedestrian crossings, National Traffic Safety Symposium, Cluj-Napoca, November 2011, ISSN 2068-749X, pg.41-50.
10. Marusceac V., **Dragomir M.L.**, Special arrangements for cycling tracks, National Traffic Safety Symposium, Cluj-Napoca, November 2011, ISSN 2068-749X, pg.27-35.
11. **Dragomir M.L.**, Petit C., Thermal shrinkage bending test in characterizing reinforcement advantages over bituminous mixtures, Acta Tehnica Napocensis Civil Engineering and Architecture, Vol.54, No.1, Cluj-Napoca, 2011, ISSN 1221-5848, pg.112-121.
12. **Dragomir M.L.**, Iliescu M., Performance analysis of reinforced mixtures with bending traction device, Student Scientific Communication Symposium, PhD Students Section, publicly defended at the Faculty of Civil Engineering, May 2011. Burned to the symposium CD without printed volume.
13. **Dragomir M.L.**, Marusceac V., Constructive alternatives applicable in road construction, National Symposium of New Materials and Technologies in Road and Bridge Construction and Maintenance, May 24-25 2012, ISSN 2068-2727
14. Marusceac V., **Dragomir M.L.**, Sustainable materials in modern road construction, National Symposium on new materials and technologies in road and bridge construction and maintenance, May 24-25, 2012, ISSN 2068-2727

15. Iliescu M., **Dragomir M.L.**, Rațiu I., Solutions to reduce degradation from temperature variations on roads, National Symposium of New Materials and Technologies in Road and Bridge Construction and Maintenance, May 16-17 2013, ISSN 2068-2727, pg.25-33.
16. Marusceac V., Olean C., **Dragomir M.L.**, Access and visibility problems at intersections, generated by irregular parking, National Traffic Safety Symposium, Cluj-Napoca, May 2013, ISSN 2068-749X, pg.66-72.
17. Iliescu M., **Dragomir M.L.**, The influence of temperature on urban road structures, Timisoara Academic Days, XIII Edition, Timisoara, Romania, May 23-24 2013, pg.78-86.
18. Pop N., **Dragomir M.L.**, The waste of fiber glass and polyester used in cold recycling highways superstructure, Highway and Bridge Engineering 2014, International Symposium, Iași, România, 2014.
19. Hoda G., **Dragomir M.L.**, Beca Ilinca, New road clothing with antinoise properties, National Symposium of New Materials and Technologies in the Construction and Maintenance of Roads and Bridges, XI Edition, Cluj-Napoca, May 2015.
20. **Dragomir M.L.**, Iliescu M., The use of unconventional materials in asphalt mixtures, CAR International Symposium Bucharest, July 2015.
21. Hoda G., **Dragomir M.L.**, Nica V., Solutions to prevent and combat snow on roads, Timisoara Academic Days, XIV Edition, Timisoara, Romania, May 28-29 2015, pg.144-154.
22. **Dragomir M.L.**, Marusceac V., Arrangement of cycle paths in Cluj-Napoca: safety versus risk, National Traffic Safety Symposium, Cluj-Napoca, November 2015, ISSN 2068-749X, (CD).
  
23. *Research and studies on the relationship between the existing urban infrastructure and the traffic induced by a project to extend an industrial platform in Cluj-Napoca*, UTC-N – EMERSON ROMÂNIA, **RDI type project**, Registry No. UTCN 36373 / 2021, Registry No. DMCDI TN 266 / 02.12.2021 - **Project director/grant (ongoing project)**.  
*Experimental and numerical study on the performance of asphalt concrete from the perspective of thermal susceptibility and elasticity modulus value*, Type project CICDI, **Registry No. UTC-N 16643/2017, DMCDI 2006/2017 project code CI2017 CONS 4**
24. *Specialized study on establishing the number of taxi authorizations at the level of mun. Cluj-Napoca, for the period 2020-2025*, contract no.311639/2019 (beneficiary City Hall mun. Cluj-Napoca) Contract no.17485/2019 UTC-N, **DMCDI TN162/01.07.2019**
25. **Review-** Guide to Design and Sustainability Assessment of Blast Furnace Slag Road Concrete (**BcR-S**)- <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/610-4.pdf>

**Head of Works PhD. Eng. Mihai Liviu DRAGOMIR**