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Comprehensive list of works and publications

A – List of the maximum ten (10) works considered to be the most relevant for one's own professional achievements

1. **Danciu AD**, Guțiu ȘI, Moga C, Dragomir ML, Ciotlăuș M, Marusceac V. (2023) A Review of the Network Arch Bridge. Applied Sciences,13(19):10966. <https://doi.org/10.3390/app131910966>. **IF=2.7** (2022), undergoing indexing.
2. Marusceac,V., **Danciu,A.**, Ciotlaus,M. & Dragomir,M.(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>. **IF=1.1**, (2022), undergoing indexing.
3. Ciotlaus M, Kollo G, Fenesan C, **Danciu AD**, Dragomir ML, Marusceac V. (2023) Rail Wear Evolution on Small-Radius Curves under Mixed Traffic Conditions, In-Field Investigations. Applied Sciences, 14(1), 209; <https://doi.org/10.3390/app14010209>. **IF=2.7**, (2022), undergoing indexing.
4. Marusceac,V. & **Danciu,A.**(2023). Impact of expansion joints on noise pollution, case study in Cluj-Napoca. Romanian Journal of Transport Infrastructure, 12(1) 1-12. <https://doi.org/10.2478/rjti-2023-0004>. **IF=0.1**.
5. Guțiu,Ș., Moga,C. & **Danciu,A.**(2021).Connections of Steel Girders with End Plates and Partially Prestressed Bolts. Romanian Journal of Transport Infrastructure,10(2) 1-16. <https://doi.org/10.2478/rjti-2021-0009>. **IF=0.1**.
6. **Danciu, A.**, Guțiu, Ș., Moga, C., Bucerzan, M. (2022). Comparative Analysis Between the Hanger Arrangement in an 80 m Network Arch Bridge with Circular Hollow Cross-Sections. In: Moldovan, L., Gligor, A. (eds) The 15th International Conference Interdisciplinarity in Engineering. Inter-Eng 2021. Lecture Notes in Networks and Systems, vol 386. Springer, Cham. https://doi.org/10.1007/978-3-030-93817-8_12.
7. Guțiu, Ș., Moga, C., Suci, M., **Danciu, AD**. (2022). Comparative Analysis Between Two Constructive Solutions of a Steel Tied-Arch Road Bridge. In: Moldovan, L., Gligor, A. (eds) The 15th International Conference Interdisciplinarity in Engineering. Inter-Eng 2021. Lecture Notes in Networks and Systems, vol 386. Springer, Cham. https://doi.org/10.1007/978-3-030-93817-8_9.
8. Guțiu,Ș., Moga,C. & **Danciu,A.** (2019).Dynamic Analysis of a Footbridge Structure on a Central Arch. Romanian Journal of Transport Infrastructure, 8(2) 58-72. <https://doi.org/10.2478/rjti-2019-0011>.
9. Moga,C., Guțiu,Ș., **Danciu,A.D.** (2017). Material Consumption Reduction by Using Steel Girders with Corrugated Webs. In: Procedia Engineering 1181, 234-241, <https://doi.org/10.1016/j.proeng.2017.02.384>.

10. Guțiu,Ș., Moga,P., Moga,C. & **Danciu,A.** (2016). The new arch bridge in the city of Sibiu, Romania. In: Procedia Engineering 156, 132-139. 9th International Conference "Bridges in the Danube Basin 2016", BDB 2016, <https://doi.org/10.1016/j.proeng.2016.08.278>.

B - Doctoral Thesis

Efficiency and Error in the Finite Element Method with applications to structures.

PhD supervisor: Prof PhD Eng Eugen Panțel, UTCN

Doctoral thesis was defended in public on the 28th of September 2011.

Title was confirmed through the order MECT 6697/21.12.2011.

C- Patent/title of industrial property

Not applicable.

D – Books and book chapters

1. P. MOGA, Șt. I. GUȚIU, C. MOGA, **ALEXANDRA D DANCIU**, Steel Constructions and Bridges. Fundamentals of Designing Steel Elements. 2nd Edition, 448 pages, UTPRESS, 2023, ISBN 978-606-737-653-1.
2. P. MOGA, Șt. I. GUȚIU, **ALEXANDRA D DANCIU**, C. MOGA, Steel Bridges. Practical Design Manual, 298 pages, UTPRESS, 2022, ISBN 978-606-737-557-2.
3. P. MOGA, Șt. I. GUȚIU, **ALEXANDRA D DANCIU**, C. MOGA, Steel Bridges. Design guide. Railway Bridge Structure, 226 pagini, Steel Pedestrian Bridges. Design Manual, 164 pages, UTPRESS 2014, ISBN 978-973-662-914-3.
4. P. MOGA, Șt. I.GUȚIU, C. MOGA, **ALEXANDRA D. DANCIU**, M. SUCIU: Steel footbridges. Design manual. 164 pages, UTPRESS 2014, ISBN 978-973-662-914-3.
5. P. MOGA, Șt. I.GUȚIU, C. CÂMPIAN, C. MOGA, **ALEXANDRA D. DANCIU**: Steel Constructions and Bridges. Design of Steel elements, 372 pages, UTPRESS, 2014, ISBN 978-973-662-949-5.
6. A.M. IOANI, **ALEXANDRA D. DANCIU**, HM MOCIRAN, Theory of Elasticity. Examples and Problems, 73 pages, UTPRESS, 2011, ISBN 978-973-662-655-5.

E – Articles/studies published in journals from the main international scientific stream

1. **Danciu AD**, Guțiu ȘI, Moga C, Dragomir ML, Ciotlăuș M, Marusceac V. (2023) A Review of the Network Arch Bridge. Applied Sciences,13(19):10966. <https://doi.org/10.3390/app131910966>, **FI=2.7** (Published in 2023, undergoing indexing).
2. Marusceac,V., **Danciu,A.**, Ciotlaus,M. & Dragomir,M.(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** (Published in 2023, undergoing indexing).
3. Ciotlaus M, Kollo G, Fenesan C, **Danciu AD**, Dragomir ML, Marusceac V. (2023) Rail Wear Evolution on Small-Radius Curves under Mixed Traffic Conditions, In-Field Investigations. Applied Sciences, 14(1), 209; <https://doi.org/10.3390/app14010209>. **FI=2.7** (Published in 2023, undergoing indexing).

4. Marusceac,V. & **Danciu,A.**(2023). Impact of expansion joints on noise pollution, case study in Cluj-Napoca. Romanian Journal of Transport Infrastructure, 12(1) 1-12. <https://doi.org/10.2478/rjti-2023-0004>, **FI 0.1.**
5. Guțiu,Ș., Moga,C. & **Danciu,A.**(2021).Connections of Steel Girders with End Plates and Partially Prestressed Bolts. Romanian Journal of Transport Infrastructure,10(2) 1-16. <https://doi.org/10.2478/rjti-2021-0009>, **FI 0.1.**
6. Guțiu,Ș., Moga,C. & **Danciu,A.** (2019).Dynamic Analysis of a Footbridge Structure on a Central Arch. Romanian Journal of Transport Infrastructure, 8(2) 58-72. <https://doi.org/10.2478/rjti-2019-0011>.

F. Full publications appearing in proceedings of the main international conferences in the field.

1. **Danciu, AD.,** Guțiu, Ș., Moga, C., Ciotlaus, M., Marusceac, V., Dragomir, ML.(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, The 17th International Conference Interdisciplinarity in Engineering. Inter-Eng 2023, 5-6.10.2023, Tg. Mureș, Romania.
2. Marusceac, V., Ciotlaus, M., **Danciu, AD.,** Dragomir, ML. (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, 5-6.10.2023, Tg. Mureș, Romania.
3. Ciotlaus, M., Marusceac, V., **Danciu, AD.,** Dragomir, ML. (2023) Rail fastening maintenance impact on track stability for continuously welded rail tracks, The 17th International Conference Interdisciplinarity in Engineering. Inter-Eng 2023, 5-6.10.2023, Tg. Mureș, Romania.
4. **Danciu, A.,** Guțiu, Ș., Moga, C., Bucerzan, M. (2022). Comparative Analysis Between the Hanger Arrangement in an 80 m Network Arch Bridge with Circular Hollow Cross-Sections. In: Moldovan, L., Gligor, A. (eds) The 15th International Conference Interdisciplinarity in Engineering. Inter-Eng 2021. Lecture Notes in Networks and Systems, vol 386. Springer, Cham. https://doi.org/10.1007/978-3-030-93817-8_12.
5. Guțiu, Ș., Moga, C., Suci, M., **Danciu, AD.** (2022). Comparative Analysis Between Two Constructive Solutions of a Steel Tied-Arch Road Bridge. In: Moldovan, L., Gligor, A. (eds) The 15th International Conference Interdisciplinarity in Engineering. Inter-Eng 2021. Lecture Notes in Networks and Systems, vol 386. Springer, Cham. https://doi.org/10.1007/978-3-030-93817-8_9.
6. Cătălin Moga, Ștefan I.Guțiu, **Alexandra D. Danciu,** Material Consumption Reduction by using Steel Girders with Corrugated Webs, Procedia Engineering, 181, 234–241, <https://doi.org/10.1016/j.proeng.2017.02.384>
7. Guțiu,Ș., Moga,P., Moga,C. & **Danciu, A.** (2016). The new arch bridge in the city of Sibiu, Romania. In: Procedia Engineering 156, 132-139. 9th International Conference "Bridges in the Danube Basin 2016", BDB 2016, <https://doi.org/10.1016/j.proeng.2016.08.278>
8. Moga,P., Guțiu,Ș., Anghel,F., Moga,C., **Danciu, A.** (2016). Footbridge Over the Someș River in Cluj-Napoca, România. In: Procedia Engineering 156, 249-256, <https://doi.org/10.1016/j.proeng.2016.08.294>.
9. Șt. I. GUȚIU, C. MOGA, **Alexandra DANCUI,** M. SUCIU: Constructive solutions for medium span footbridges, 16th International Multidisciplinary Scientific Geoconference (SGEM 2016), Nano, Bio and Green – Technologies for a Sustainable Future, 30 june-6 july, 2016, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-69-8, ISSN 1314-2704, DOI:10.5593/sgem2016B62, pp 517-524, <https://www.webofscience.com/wos/woscc/full-record/WOS:000391650000068>.
10. Șt. I. GUȚIU, C. MOGA, **Alexandra DANCUI:** Elastic and plastic design of composite steel-concrete girders with circular holes, 16th International Multidisciplinary Scientific Geoconference (SGEM

2016), Nano, Bio and Green – Technologies for a Sustainable Future, 30 June-6 July, 2016, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-69-8, ISSN 1314-2704, DOI:10.5593/sgem2016B62, pp 549-556, <https://www.webofscience.com/wos/woscc/full-record/WOS:000391650000072>.

11. C. MOGA, Șt. I. GUȚIU, **Alexandra DANCIU**, M. SUCIU: Concrete shrinkage stresses and thermal effects in the composite girders according to Eurocodes, 16th International Multidisciplinary Scientific Geoconference (SGEM 2016), Nano, Bio and Green – Technologies for a Sustainable Future, 30 June-6 July, 2016, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-69-8, ISSN 1314-2704, DOI:10.5593/sgem2016B62, pp 501-508, <https://www.webofscience.com/wos/woscc/full-record/WOS:000391650000066>
12. **Alexandra DANCIU**, Șt. I. GUȚIU, C. MOGA: Bi-dimensional analysis of a 90 m arch with different hanger arrangements, 16th International Multidisciplinary Scientific Geoconference (SGEM 2016), Nano, Bio and Green – Technologies for a Sustainable Future, 30 June-6 July, 2016, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-69-8, ISSN 1314-2704, DOI:10.5593/sgem2016B62, pp 477-484, <https://www.webofscience.com/wos/woscc/full-record/WOS:000391650000063>
13. Șt. I. GUȚIU, C. MOGA, **Alexandra DANCIU**: Composite steel concrete trusses for railway bridge superstructures, 14th GeoConference on Nano, Bio and Green – Technologies for a Sustainable Future, SGEM 17-26 June, 2014, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-21-6, ISSN 1314-2704, DOI:10.5593/sgem2014B62, pp 73-80, <https://www.webofscience.com/wos/woscc/full-record/WOS:000366135800010>
14. C. MOGA, Șt. I. GUȚIU, **Alexandra DANCIU**: Influence of cross-sectional shape on the values of the critical buckling force, 14th GeoConference on Nano, Bio and Green – Technologies for a Sustainable Future, SGEM 17-26 June, 2014, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-21-6, ISSN 1314-2704, DOI:10.5593/sgem2014B62, pp 219-226, <https://www.webofscience.com/wos/woscc/full-record/WOS:000366135800029>
15. C. MOGA, Șt. I. GUȚIU, **Alexandra DANCIU**: Shear stresses transfer at the steel-concrete interface in circular concrete filled steel tubes, 14th GeoConference on Nano, Bio and Green – Technologies for a Sustainable Future, SGEM 17-26 June, 2014, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-21-6, ISSN 1314-2704, DOI:10.5593/sgem2014B62, pp 613-620, <https://www.webofscience.com/wos/woscc/full-record/WOS:000366135800079>
16. **Alexandra DANCIU**, D. DANCIU, C. MOGA, Șt. I. GUȚIU: Evolutionary method for re-triangulation, 14th GeoConference on Nano, Bio and Green – Technologies for a Sustainable Future, SGEM 17-26 June, 2014, Bulgaria, Conference Proceedings, Volume II, Green buildings technologies and materials; Green design and sustainable architecture, ISBN 978-619-7105-21-6, ISSN 1314-2704, DOI:10.5593/sgem2014B62, pp 145-152, <https://www.webofscience.com/wos/woscc/full-record/WOS:000366135800019>.

G. Other works and scientific contributions

1. **Alexandra DANCIU**, Șt. I. GUȚIU, C. MOGA: (2023) Influence of Design Parameters on General Stability of Tied Arches with an Upper Bracing, Bulletin of the Polytechnic Institute of Iași. Construction. Architecture Section, vol 67(2022): issue 4, pp 61-75.
2. C. MOGA, Șt. I. GUȚIU, **Alexandra DANCIU**, B. CRISTEA: (2022) Aspects regarding EC3-2 Procedure for Stability Verification of the Free-Standing Circular Arches, Bulletin of the Polytechnic Institute of Iași. Construction. Architecture Section, vol 67(2022): issue 3, pp 105-117.

3. C. MOGA, Șt. I. GUȚIU, **Alexandra DANCIU**, B. CRISTEA: Technical Aspects and Structural Verification of a Footbridge with Composite Steel-Concrete Box Girder, Bulletin of the Polytechnique Institute of Jassy, Vol. 70(2). ISSN 2068-4762(e). Iași, 2020.
4. Șt. I. GUȚIU, C. MOGA, **Alexandra DANCIU**: Considerations regarding roadway steel bridges connections using bolts and end plates, The Eight International Conference "Bridges in Danube Basin" 25-27 September 2019, Vienna, Austria, ISBN: 978-3-9502387-2-3
5. C. MOGA, Șt. I. GUȚIU, **Alexandra DANCIU**: Circular concrete filled steel tubes. Tangential shear stresses transfer at the steel-concrete interface, Eurosteel 2014: 7th European Conference on Steel and Composite Structures, Naples, Italy, September 10-12, 2014. ed. / Raffaele Landolfo; Frederico M. Mazzolani. Brussels, Belgium: European Convention for Constructional Steelwork, ECCS, 2014, ISBN: 978-92-9147-121-8
6. Șt. I. GUȚIU, P. MOGA, **Alexandra DANCIU**, C. MOGA: Lateral torsional buckling resistance of steel plate girder according to Euronorms, The Eight International Conference "Bridges in Danube Basin", 2013, published in "New Trends in Bridge Engineering and Efficient Solutions for Large and Medium Span Bridges" SpringerVieweg, ISBN 978-3-658-03713-0, DOI 10.100/978-3-658-03714-7, p. 395-406
7. ȘT. GUȚIU, C. MOGA, **Alexandra-Denisa DANCIU**, M. SUCIU: Selection of structural steel toughness according to SR EN 1993-1-10. Bulletin of the Polytechnique Institute of Jassy, Tome LIX. Fascicle 2. ISSN 2068-4762(e). Iași, 2013, p. 45-54
8. P. Moga, ȘT. GUȚIU, **Alexandra-Denisa DANCIU**: Influence of Open Cross-Section Shape on Compression Members Buckling Resistance Bulletin of the Polytechnique Institute of Jassy, Tome LIX. Fascicle 1. ISSN 2068-4762(e). Iași, 2013. p. 81-102
9. C. MOGA, **Alexandra-Denisa DANCIU**, M. SUCIU: A Comparative Analysis of Web Buckling Resistance: Steel Plate Girders – Girders with Corrugated Webs A Comparative Analysis of Web Buckling Resistance: Steel Plate Girders – Girders with Corrugated Web, Bulletin of the Polytechnique Institute of Jassy, Tome LIX. Fascicle 1. ISSN 2068-4762(e). Iași, 2013, p. 175-182.
10. Ofelia Corbu, Raluca Istoan, **Alexandra D. DANCIU**: Utilizing Waste Aggregates in the Production of New Sustainable Concrete for Precast Elements, The 2nd World Symposium on Materials Sciences and Engineering 2023, 8-10 noiembrie 2023, Singapore, pp. 53.
11. MOGA P., GUȚIU ȘT., **DANCIU AD**, MOGA C., SUCIU M.: Aspects regarding the stability of steel arch bridges in accordance to SR EN 1993:2-2007, Roads and Bridges journal, February 2021, Year XXVIII, no. 281, pp. 5-9.
12. Șt. I. GUȚIU, SUCIU M, **DANCIU A.**, MARUSCEAC, V.: Composite steel-concrete decks on steel beams with trusses, National Symposium „ New Materials and Technologies in the Construction and Maintenance of Roads and Bridges”. 7-8 may 2015. Cluj-Napoca. ISSN 2068-2727, p. 147-161
13. MOGA C., **DANCIU AD.**, MARUSCEAC V.: Design of steel-concrete composite elements subjected to compression with biaxial bending, The 4th Congress of Roads and Bridges in Romania, Cluj-Napoca, september 2014, 923-933, ISBN 978-606-737-005-8
14. MOGA P., GUȚIU ȘT., **DANCIU A.**: Efficiency of steel beams with corrugated web regarding shear strength. The 4th Congress of Roads and Bridges in Romania, Cluj-Napoca, september 2014, 923-933, ISBN 978-606-737-005-8
15. C. MOGA, **DANCIU AD**. Steel girders with corrugated webs. C60-International Conference "Tradition and Innovation- 60 Years of Constructions in Transylvania, 7-9 November 2013, Cluj-Napoca, Romania.
16. P. MOGA, Șt. I. GUȚIU, C. MOGA, **Alexandra DANCIU**: Calculation of stiffeners for I-beams according to EN 1993-1-5, "Current Trends in Structural Engineering of Steel Structures", the 13th National Conference on Steel Constructions, 21-22 nov 2013, Bucharest, ISBN 978-973-100-306-1, pp. 85-92

17. P. MOGA, Șt. I. GUȚIU, AD. **DANCIU**: Lateral torsional buckling resistance of Hot-Rolled Steel Girders. Proc. of the C60 International Conference. Tradition and Innovation. Cluj-Napoca. nov. 2013. pag. 225, ISBN 978-973-662-903-7
18. P., MOGA, **DANCIU, A.** Axial compression stability of orthotropic decks. National Symposium „ New Materials and Technologies in the Construction and Maintenance of Roads and Bridges”. 17 may 2013. Cluj-Napoca.
19. AD. **DANCIU**: Numerical modeling of road systems. The influence of model height on results. In: National Symposium „ New Materials and Technologies in the Construction and Maintenance of Roads and Bridges”. 9th edition, no. 9, 2012, UTPRESS, ISBN 2068-2735.
20. AD. **DANCIU, E. PANTEL, HA MOCIRAN, DI DANCIU**: Contributions to criterions for assessing the accuracy of a finite element model. Computational Civil Engineering 2010, International Symposium Iasi, Romania, May 28, 2010.
21. HA MOCIRAN, E PANTEL, **AD DANCIU**: Application of fluid viscous dampers in the seismic control of steel frame structures 480. Computational Civil Engineering 2010, International Symposium Iasi, Romania, May 28, 2010.
22. **AD DANCIU, HA Mociran**: Errors in finite element analysis, Proceedings 10th International Scientific Conference VSU2010, 3-4 iunie, 2010, Vol.1, pp.192 197, ISSN 1314 071X.
23. HA MOCIRAN, **AD DANCIU**: Earthquake protection of steel frame structures by using fluid viscous dampers, Proceedings 10th International Scientific Conference VSU2010, 3-4 iunie, 2010, Vol.1, pp.118 113, ISSN 1314-071X.
24. HA MOCIRAN, **AD DANCIU**: Earthquake protection of steel frame structures by using elastomeric base isolators, Proceedings 10th International Scientific Conference VSU2010, 3-4 iunie, 2010, Vol.1, pp.114 119, ISSN 1314-071X.
25. **AD DANCIU, HA Mociran**: JAVA A solution for future finite element analysis, Proceedings 10th International Scientific Conference VSU2010, 3-4 iunie, 2010, Vol.1, pp.188 191, ISSN 1314-071X.
26. HA Mociran, **AD Danciu**, Effectiveness of viscoelastic dampers in mitigating seismic response of a single degree freedom structure, Bulletin of the Polytechnic Institute of Iași, Tomul LVI(LX), Fasc. 4A, Ed. Politehni um, pp .501 506, ISSN 1011 2855.
27. HA Mociran, **AD Danciu**, Evaluation of seismic energy response of a single degree of freedom structure equipped with viscous dampers, Bulletin of the Polytechnic Institute of Iași, Tomul LVI(LX), Fasc. 4A, Ed. Politehni um, pp.423 428, ISSN 1011 2855.
28. **AD Danciu, HA Mociran**, Estimation of modeling errors, Bulletin of the Polytechnic Institute of Iași, Tomul LVI(LX), Fasc. 4A, Ed. Politehni um, pp.417 422, ISSN 1011 2855.
29. **AD Danciu, HA Mociran**, Shell elements and their application in structural mechanics, Bulletin of the Polytechnic Institute of Iași, Tomul LVI(LX), Fasc. 4A, Ed. Politehni um, pp.423 428, ISSN 1011 2855.
30. HA Mociran, E Pantel, **AD Danciu**, Viscous Fluid Dampers for reducing Seismic Response of Steel Frame Structures, GNP2010, Vol2, pp. 499 504, ISBN 978 86 82707 19 6.
31. **AD Danciu, E Pantel, HA Mociran**, Deterioration of historical arch bridges. Transylvanian Example located on DN19, GNP2010, Vol2, pp. 499 504, pp. 1239 1244, ISBN 978 86 82707 19 6.
32. **AD Danciu**, Short history of the finite elements’ method, Annals of University of Oradea, Constructions and Hydro utility Installations Fascicle, vol. XII, pp. 85 88, ISSN 1454 4067, 2009.
33. **AD Stan, HA Mociran**, A discussion of the mathematics of the finite element method, Acta Technica Napocensis: Civil Engineering and Architecture, Vol 52 (2009), pp. 81 84, I SSN 1221 5848.
34. HA Mociran, **AD Stan**, Seismic isolation for seismic retrofit of existing buildings, Acta Technica Napocensis: Civil Engineering and Architecture, Vol 52 (2009), pp. 77 80, ISSN 1221 5848.

35. HA MOCIRAN, **AD STAN**: The influence of damping ratios on earthquake response of steel frame structures. "Computational Civil Engineering 2008", International Symposium Iași, România, May 30, 2008.
36. **AD STAN**, HA MOCIRAN: Modelling lateral earth pressure on concrete retaining walls. "Computational Civil Engineering 2008", International Symposium Iași, România, May 30, 2008.
37. HA Mociran, **AD Stan**, Numerical studies on steel frame structures retrofitted with earthquake protective systems, Acta Technica Napocensis, ISSN 1221 5848, Vol 1, pp. 191 198, Proceedings of the International Conference CONSTRUCTIONS 2008, Cluj Napoca, Romania.
38. **AD Stan**, HA Mociran, Contribution to error estimates for plates, Acta Technica Napocensis, ISSN 1221 5848, Vol 1, pp. 257 262, Proceedings of the International Conference CONSTRUCTIONS 2008, Cluj Napoca, Romania
39. **AD Stan**, Study of the structure of a viaduct made from prefabricated elements, STUDENT 2006, Section roads, Bridges and Railways, 5th Edition, 12 may 2006, ISBN(10) 973 662 227 4, ISBN(13) 978 973 662 227 4, UTPRES
40. Contract type C-CDI-2021, registered with DMCDI with the number TN 348/25.11.2022 and registered with UTCN with the number 39029/24.11.2022, with the title: „**Research on the construction of arch bridges in a Network Arch solution**” project value 71400 lei, period 24.11.2022 – present. As a **Project Leader**.
41. Contract type C-CDI-2023, registered with DMCDI with the number TN 184/27.10.2023 and registered with UTCN with the number 35600/27.10.2023, with the title: „ **Research on improving the load-bearing capacity of pre-stressed concrete railway sleepers T17, using zeolite**” project value 64963.05 lei, period 27.10.203 – present. As a **Member** of the implementation team.
42. Third party contract registered with the number 41/09.06.2016 with the title: „Technological study regarding technical expertise services, Feasibility Study (SF), Preliminary Design (PF), Detailed Design (DE), Technical Assistance from the designer for Major Repair of the Bridge over the Mureș River with an overpass above the railway line Deda-Tg. Mureș, on Călărașilor Street in Târgu Mureș municipality, Mureș County”, contract value 53788 lei, period 2016-2019. As a **Project leader**.
43. **Book review** - Calculation of slab bridges. Design guide. Author Vladimir Marusceac. UTPress, Cluj-Napoca, 2021, ISBN 978-606-737-496-4. <https://biblioteca.utcluj.ro/files/carti-online-cu-coperta/496-4.pdf>

Date: 08.01.2024

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