Universitatea Tehnică din Cluj-Napoca

Facultatea de Construcții

Departamentul Mecanica Construcțiilor

Asist.dr.ing. Adrian G. MARCHIȘ

LISTA DE LUCRĂRI

A– Lucrări științifice

1. **Marchiș, A.G**., Cucu, H.L., Ioani, A.M. Vulnerability to progressive collapse of steel structures: GSA 2003 Guidelines, *Acta Technica Napocensis: Civil Engineering & Architecture,* Vol. 54, No. 3, ISSN 1221-5848, pp. 233-240, 2011.
2. **Marchiș, A.G**., Moldovan, T.S., Ioani, A.M. Flexural resistance of an old RC framed structure subjected to abnormal loads, *Proceedings of the 4th International Conference in Civil Engineering – Science and Practice*, ISBN 978-86-82707-21-9, Zabljak, Montenegro, 20-24 February, 2012.
3. **Marchis, A.G**., Moldovan, T.S., Ioani, A.M. "The Behaviour of an Old Representative Reinforced Concrete Building subjected to Abnormal Loads", *in B.H.V. Topping, (Editor), "Proceedings of the Eleventh International Conference on Computational Structures Technology"*, Civil-Comp Press, Stirlingshire, UK, Paper 243, 2012. doi:10.4203/ccp.99.243.
4. **Marchiș, A**., Botez, M., Ioani, A.M. Vulnerability to Progressive Collapse of Seismically Designed Reinforced Concrete Framed Structures in Romania, *Proceedings of the Fifteen World Conference on Earthquake Engineering,* Lisbon, Portugal, 24-28 September, 2012.
5. **Marchiș, A.G**., Botez, M.D., Ioani, A.M. Risk for Progressive Collapse of Seismically Designed RC Framed Structures: Long Side Column Case, *Ovidius University Annnals Series: Civil Engineering*, Vol. 14, ISSN 1584-5990, October, 2012.
6. Botez, M.D., **Marchiș, A.G**., Ioani, A.M . The Influence of the Corner Column Damage Case on the Progressive Collapse Potential of Mid-Rise RC Framed Structures,

Proceedings of the First International Conference for PhD Students in Civil Engineering, ISBN 978-973-757-710-8, pp. 87-94, Cluj-Napoca, Romania, 4-7 November, 2012.

7. **Marchiș, A.G**., Moldovan, T.S., Ioani, A.M. Progressive collapse resistance of low-rise RC framed structures from seismic areas, *Proceedings of the International Conference on Earthquake Engineering (SE-50EEE)*, ISBN 978-608-65185-2-3, Skopje, Macedonia, 29-31 May, 2013.
8. Oliveira, C.E.M., **Marchiș, A.G.**, Berke, P.Z., Silveira, R.A.M., Massart, T.J. Computational analysis of a RC planar frame using corotational multilayered beam FE, correlated to experimental results, *Proceedings of the 34th Iberian Latin-American Congress on Computational Methods in Engineering*, Z.J.G.N del Prado (Editor), ABMEC, Pirenopolis, Brasil, 10-13 November, 2013.
9. **Marchiș, A.G**, Moldovan, T.S., Ioani, A.M. Progressive collapse potential of seismically designed RC framed structures subjected to column removal, *Proceedings of the C60 International Conference*, Cluj-Napoca, Romania, 7-9 November, ISBN 978-973-662-903-7, pp. 19-20, 2013.
10. **Marchiș, A.G**., Moldovan, T.S., Ioani, A.M. The influence of the seismic design on the progressive collapse resistance of mid-rise RC framed structures, *Acta Technica Napocensis: Civil Engineering & Architecture*, Vol. 56, No. 2, pp. 222-234, 2013.
11. **Marchiș, A.G**.,Ioani, A.M. Numerical investigation of progressive collapse resistance for seismically designed RC buildings, *Buletinul Institutului Politehnic din Iași: Secția Construcții.Arhitectură,* Tomul LXIV, Fasc.1, pp.123-136, 2014.
12. **Marchiș, A.G**.,Ioani, A.M. The risk for progressive collapse of RC frame structures located in seismic areas in Romania, *Revista Construcții*, No.1, pp.3-11, 2014.
13. Moldovan, T.S, **Marchiș, A.G**, Ioani, A.M. Progressive collapse analysis of an old RC structure subjected to extreme loading, *Proceedings of the International Scientific Conference People, Buildings and Environment 2014*, Kromeriz, Czech Republic, 15-17 October, 2014.
14. **Marchiș, A.G**.,Ioani, A.M. Numerical investigation on the progressive collapse behavior of the RC frames dependent on the damage cases", *Acta Technica Napocensis: Civil Engineering & Architecture*, Vol. 59, No. 1, 2016.

15. **Marchis, A.G**., Botez, M.D., "A numerical assessment of the progressive collapse resistance of RC frames with respect to the number of stories", Procedia Manufacturing, Vol. 32, pp. 136-143, 2019.
16. Moldovan, T.S., **Marchis A.G**., Ioani, A.M. ”Influence of the actual seismic code provisions P100-1/2103 on the Progressive Collapse Behaviour of an old 13-story RC frame building”, *Ovidius University Annnals Series: Civil Engineering,* Vol. 16, October, 2014.

B – Teza de doctorat

„Vulnerabilitatea la colaps progresiv a structurilor în cadre din beton armat amplasate în zone seismice”

conducător ştiinţific : Prof.dr.ing. Adrian Mircea IOANI

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C – Cărţi şi capitole în cărţi

1. Anca G. Popa, Teodora S. Besoiu, Mircea D. Botez, Lucian A. Bredean, Marius Ș. Buru**, Adrian G. Marchiș** – *Îndrumător de lucrări la Rezistența Materialelor (I)*. Editura UTPRESS, Cluj-Napoca, 2017, ISBN 978-606-737-276-2, 171 pagini.
2. Anca G. Popa, , Mircea D. Botez, Marius Ș. Buru**,** Teodora S. Besoiu **Adrian G. Marchiș,** Lucian A. Bredean – *Îndrumător de lucrări la Rezistența Materialelor (I). ed. a II-a, revizuită și adăugită*, Editura UTPRESS, Cluj-Napoca, 2020, ISBN 978-606-737-481-0, 222 pagini.