

LIST OF PAPERS

a) Papers considered by the candidate to be the most relevant (10 papers)

1. **A. Ciutina**, G. Danku, D. Dubina, „Influence of steel-concrete interaction in dissipative zones of frames: I – Experimental study” *Steel and Composite Structures*, Vol. 15, No. 3 (2013), ISSN 1229-9367, pp: 299-322.
2. G. Danku, **A. Ciutina**, D. Dubina, „Influence of steel-concrete interaction in dissipative zones of frames: II – Numerical study” *Steel and Composite Structures*, Vol. 15, No. 3 (2013), ISSN 1229-9367, pp: 323-348.
3. Tuca, I., Ungureanu, V., **Ciutina, A.**, Dubina, D., 2012, Life-cycle assessment of a steel framed family house 2012 *Pollack Periodica* 7.
4. Vulcu, C., Stratan, A., **Ciutina, A.**, Dubină , D. Beam-to-column joints for seismic resistant dual-steel structures, 2011, *Pollack Periodica* 6 (2) , pp. 49-60
5. **A. Ciutina**, Tuca, Iulia, Ugureanu, Viorel, Dubina Dan “Design of Buildings Including Environmental Impact”, *Environmental Engineering and Management Journal*, Vol. 9-2010 ISSN 1582-9596, pp. 1121-1133.
6. Florea Dinu, Dan Dubina, **A. Ciutina** ”Robustness performance of seismic resistant building frames under abnormal loads” proceedings of: „Structures and Architecture”, Guimaraes, Portugal, 21-23 July 2010, ISBN 978-0-415-49249-2.
7. D. Dubina, V. Ungureanu, **A. Ciutina**, I. Tuca, M. Mutiu, 2010 Sustainable detached family house — case study, *Steel Construction*, Volume 3, Issue 3, pages 154–162, September 2010
8. **A.L. Ciutina**, and D. Dubina “Column Web Stiffening of Steel Beam-to-Column Joints Subjected to Seismic Actions” *ASCE, Journal of Structural Engineering*, Vol.134, No.3, Mar. 2008, ISSN 0733 – 9445, pp.505-511.
9. **Ciutina, A.L.**, Dogariu, A., Behaviour of different connectors under monotonic and cyclic loading, Source: Proceedings of the 3rd International Conference on Steel and Composite Structures, ICSCS07 - Steel and Composite Structures, p 779-785, 2007.
10. A. Lachal, J.M. Aribert, **A. Ciutina**. “Seismic Performance of End-Plate Moment Resisting Composite Joints”, Proceedings of Composite Construction In Steel And Concrete V: July 18-23, 2004 The Kruger National Park Conference Centre Berg-en-Dal, Mpumalanga, South Africa Ed. by the American Society of Civil Engineers – ASCE, ISBN 0-7844-0826-2, pp. 631-640.

b) PhD Thesis

Assemblages et comportement sismique de portiques en acier et mixtes acier - beton : experimentation et simulation numerique. Ph.D. degree in Civil Engineering defended at L’Institut National des Sciences Appliquees de Rennes, No. INSAREN 273474 and attested by The Ministry of National Education, Order no. 7217, dated 09.12.2004.

c) Books and chapters in books

Books

Ciutina A Comportarea structurilor în cadre compuse din oțel-beton și a îmbinărilor acestora, Editura Orizonturi Universitare, Timișoara, 2007 ISBN 978-973-638-337-3.

Ciutina A Design of Steel and Concrete Composite Elements, Timișoara, Ed. Orizonturi Universitare, 2014 ISBN 978-973-638-578-0

Chapters in books

Moment Resistant Connections of Steel Frames in Seismic Areas. Design and Reliability (Editor F.M. Mazzolani), E&FN SPON, London , 2000, ISBN 0-415-23577-4:

Chapter. 3. Cyclic behaviour of beam-to column bare steel connections;3.2 Influence of connections typology and loading asymmetry (Dubina D., Grecea D., **Ciutina A.**, Stratan A.), p 217-244 ;

Chapter 6. Evaluation of global seismic performances. 6.1 Ductility demand for semi-rigid joint frames (Dubina D., **Ciutina A.**, Stratan A., Dinu F.), p. 371-408 ;

Construcții amplasate în zone cu mișcări seismice puternice, (Coordonatori D. Dubina și D. Lungu), Imprimeria Orizonturi Universitare, Timișoara, 2003 ISBN 973-8391-90-3, Capitolul 4. Caracterizarea comportării îmbinărilor riglă-stâlp pentru analiza globală a structurilor în cadre metalice multietajate (**Ciutina A**). p. 283-343 ;

V. Ungureanu, **Ciutina A.**, I. Tuca, D. Dubina, D. Grecea, L. Fulop: „Structural and Environmental Performance of Steel Framed Houses: A Case Study”. Summary report of the Cooperative Activities. Cost Action C25. Volume 1: Integrated approach towards sustainable constructions. ISBN: 978-99957-816-1-3, 2011, pp. 395-428.

V. Ungureanu, A. Dogariu, D. Dubina, **A. Ciutina**, R. Landolfo, F.M. Mazzolani, F. Portioli: „Maintenance, repair and rehabilitation of buildings”, Summary report of the Cooperative Activities. Cost Action C25. Volume 2: Integrated approach to life-time structural engineering. ISBN: 978-99957-816-2-0, 2011, pp. 235-281.

Co-editor

A. Ciutina, A. Lachal „L’acier dans la Construction Moderne” Timișoara, Travaux du Colloque International – 2eme edition, 13-15 octombrie 2005, Editura Politehnica Timișoara, 2008, ISBN 978-973-625-682-0, 2008, 264 p.

Ungureanu V., **Ciutina A.**, Koukkari H. Sustainable building projects in steel - case studies for a new design approach. Editura Orizonturi Universitare, 2013, 978-973-638-526-1, 299 p.

V. Ungureanu, **A. Ciutina**, D. Grecea, LVS-3 Document cadru – Valorificarea conceptului de dezvoltare durabila in domeniul structurilor metalice, Timișoara, Editura Orizonturi Universitare, ISBN 978-973-638-572-8, 114 p.

d) Articles published in journals from main international scientific flux (ISI journals)

A. Ciutina, G. Danku, D. Dubina, „Influence of steel-concrete interaction in dissipative zones of frames: I – Experimental study” Steel and Composite Structures, Vol. 15, No. 3 (2013), ISSN 1229-9367, pp: 299-322.

G. Danku, **A. Ciutina**, D. Dubina, „Influence of steel-concrete interaction in dissipative zones of frames: II – Numerical study” *Steel and Composite Structures*, Vol. 15, No. 3 (2013), ISSN 1229-9367, pp: 323-348.

A. Ciutina, Tuca, Iulia, Ugureanu, Viorel, Dubina Dan “Design of Buildings Including Environmental Impact”, *Environmental Engineering and Management Journal*, Vol. 9-2010 ISSN 1582-9596, pp. 1121-1133

A.L. Ciutina, and D. Dubina “Column Web Stiffening of Steel Beam-to-Column Joints Subjected to Seismic Actions” *ASCE, Journal of Structural Engineering*, Vol.134, No.3, Mar. 2008, ISSN 0733 – 9445, pp.505-511

A.L. Ciutina, and D. Dubina. “Seismic behaviour of steel beam-to-column joints with column web stiffening” *International Journal of Steel & Composite Structures*, ISSN 1229-9367 Vol.6, No.6, Dec.2006, pp.493-512

D. Dubina, **A. Ciutina**, A. Stratan. "Cyclic Tests of Double-Sided Beam-to-Column Joints", *ASCE, Journal of Structural Engineering*, Vol.127, No.2, Feb. 2001, pp.129-136

D. Dubina, **A. Ciutina**, A. Stratan. "Cyclic Tests on Bolted Steel and Composite Double-Sided Beam-to-Column Joints", *International Journal of Steel & Composite Structures*, Vol.2, No.2, Apr.2002, pp.147-160

e) Articles published in international journals

D. Dubina, A Stratan, C. Vulcu, **A. Ciutina**, High strength steel in seismic resistant building frames — case study, , *Steel Construction*, Volume 7, Issue 3, pages 173–177, September 2014, ISSN 1867-0520.

I. Tuca, D. Dubina, **A. Ciutina**, V. Ungureanu „Life-cycle assessment of a steel framed family house” *Pollack Periodica*, ISSN 1788-1994, vol 7, 2012 pp. 15-26.

C. Vulcu, A. Stratan, **A. Ciutina**, D. Dubina „Beam-to-column joints for seismic resistant dual-steel structures” *Pollack Periodica*, ISSN 0031-5303, vol 6, 2011 (2), pp. 49-60.

Dubina Dan, Ugureanu Viorel, Tuca Iulia, **A. Ciutina**, “Sustainable Detached Family House”, *Steel Construction, Design and Research* Vol. 3-2010, ISSN 1867-0520, pp. 154-162 .

A.L. Ciutina, and D. Dubina “Column Web Stiffening of Steel Beam-to-Column Joints Subjected to Seismic Actions” *ASCE, Journal of Structural Engineering*, Vol.134, No.3, Mar. 2008, ISSN 0733 – 9445, pp.505-511 .

A.L. Ciutina, and D. Dubina. “Seismic behaviour of steel beam-to-column joints with column web stiffening” *International Journal of Steel & Composite Structures*, ISSN 1229-9367 Vol.6, No.6, Dec.2006, pp.493-512 .

A. Ciutina, J.M. Aribert et D. Dubina. “Etude expérimentale sur la résistance de panneau d’âme d’assemblages de type poutre-poteau sous sollicitations cycliques de type sismique” *Revue Construction Métallique* ISSN 0045-8198 n°3, p. 15-28, 2004 .

A. Ciutina, J.M. Aribert et A. Lachal. “Expérimentation et modélisation numérique du comportement d’assemblages boulonnés métalliques et mixtes acier-béton sous sollicitations cycliques de type sismique” *Revue Construction Métallique* ISSN 0045-8198 n° 1, p. 3-34, 2004.

I. Vayas, **A. Ciutina**, A. Spiliopoulos “Low cycle fatigue gestützter Erdbebennachweis von Rahmen aus Stahl”, *Bauingenieur*, Bd. 74(1999), Nr. 10 – Oktober p. 448-458.

I. Vayas, **A. Ciutina**, „Ενεργειακό Περιεχόμενο Ελληνικών Σεισμών0 (Energy content of Greek Earthquakes)” *ιανουαριος - αυγουστος 1999 - τομος 19, τευχος 1-2.*, 1999, p. 87-98 Athens.

f) Articles published in national journals

A.A. Botici, V. Ungureanu, **A. Ciutina**, A. Botici, D. Dubina, Z. Nagy, M.J. Riihimäki, A. Talja, L.A. Fülöp, „Sustainability challenges of residential reinforced - concrete panel buildings”, Revista Urbanism, Arhitectura, Constructii Vol.5 Nr. 2/2014, ISSN 2069-0509 (print) / 2069-6469 (on-line), 2014, pp. 83-98.

C. Vulcu, A. Stratan, **A. Ciutina**, D. Dubina, „Studiul comportării stâlpilor tubulari umpluți cu beton cu conectori din bolțuri împușcate, sollicitați monoton și ciclic”, Revista AICPS Review 1-2/2014, ISSN 2067-4546, vol 1-2, 2014, pp. 80-85.

D. Dubina, V. Ungureanu, **A. Ciutina**, D. Grecea, I. Tuca, M. Sumalan „Analiza factorilor de impact asupra mediului pentru un set de soluții constructive pentru clădiri de locuit” Revista AICPS Review 3/2011, ISSN 2067-4546, vol 6, 2011 (2), pp. 49-60.

Dubina Dan, **A. Ciutina**, Ungureanu Viorel “ Sustainable Development of the Built Environment”, Buletinul Asociației Generale a Inginerilor din Romania - AGIR, Vol. 2-3 2010, ISSN 1224-7928, pp. 11-22.

Dubina Dan, Ungureanu Viorel, **A. Ciutina**, Daniel Grecea, Iulia Țuca, Mircea Șumălan “Analiza factorilor de impact asupra mediului pentru un set de soluții constructive pentru clădiri de locuit”, AICPS Review, Vol. 4-2010, ISSN 2067-4546, pp. 69-80.

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A. Ciutina, A. Dogariu “Performanțele Conectorilor la încărcări ciclice”, Acta Tehnica Napocensis, Vol. I-2008, ISSN 1221– 5848, pp 335-345.

D. Dubină, F. Dinu A. Stratan, **A. Ciutina**: "Tower Center International București – proiectul structurii metalice". AICPS Review, nr. 1/2007. ISSN 1454-928X, pp. 2-8.

A. Ciutina, A. Stratan, D. Dubina "Comportarea îmbinărilor riglă-stâlp în cazul structurilor compuse din oțel-beton, multietajate și necontravântuite", Buletinul AICPS (Asociația Inginerilor Constructori Proiectanți de Structuri), n°. 3/2001 p. 26-32.

A. Ciutina, “Monotonic and Cyclic Behavior of Shear Connectors”. Buletinul Stiintific UPT, Tom. (50/64)/2005 ISSN 1224-6026 p. 75-82.

A.L. Ciutina, “Disipative seismic performance of composite moment resisting frames including realistic behaviour of joints”. Buletinul Stiintific UPT, Tom. (48/62)/2003 ISSN 1224-6026 p. 53-62.

A. Ciutina, A. Stratan. “Cyclic behaviour of beam to column connections”. Buletinul Stiintific UPT, Tom. (44/58)/1999, ISSN 1224-6026 p. 18-30.

D. Dubina, **A. Ciutina**, A. Stratan. "Recent Studies and Researches Concerning the Anti-Seismic Performances of Moment Resisting Multi-Storey Frames", AGIR Buletin, nr. 4 oct-dec. 2000, pp.57-67, ISSN 1224-7928.

g) Articles published in international conferences

A. Floricel, A. Vataman, V. Ungureanu, **A Ciutina**, Structural solutions based on intensive use steel for overcladding of existing large precast concrete panel buildings, 11th

international congress on advances in Civil Engineering ACE 2014, 21-25 October 2014, Istanbul, Turkey, (CD)

D. Dubina, A. Stratan, C. Vulcu, **A. Ciutina**, High strength steel in seismic resistant building frames, Proceedings of the 7th European Conference on Steel and Composite Structures, EUROSTEEL 2014, Napoli, Italy September 10-12, 2014, ISBN 978-92-9147-121-8.

C. Vulcu, A. Stratan, **A. Ciutina**, D. Dubina Steel-concrete connection in case of concrete filled rectangular hollow section columns, Proceedings of the 7th European Conference on Steel and Composite Structures, EUROSTEEL 2014, Napoli, Italy September 10-12, 2014, ISBN 978-92-9147-121-8.

A. Ciutina, D. Dubina, G. Danku, M. Senila, I. Petran, Influence of the connection between steel and concrete on the seismic behaviour of steel EBF, Proceedings of the 7th European Conference on Steel and Composite Structures, EUROSTEEL 2014, Napoli, Italy September 10-12, 2014, ISBN 978-92-9147-121-8.

F. Dinu, D. Dubina, I. Petran, **A. Ciutina**, T. Kovacs, Numerical simulation of 3D assembly models under large deformation conditions, Proceedings of the 7th European Conference on Steel and Composite Structures, EUROSTEEL 2014, Napoli, Italy September 10-12, 2014, ISBN 978-92-9147-121-8.

D. Dubina, **A. Ciutina**, F. Dinu, D. Grecea (2013), „Influence of Joint Semi-Rigidity on the Seismic Response of a 3D Moment-Resisting Frame Structure”, Proceedings of the International Conference the Italian Steel Days, 30 September-2 October 2013, Torino, Italy, ISBN 978-88-905870-0-9, pp. 605-612.

Botici A.A., Ungureanu V., **Ciutina A.**, Botici A., Dubina D. (2013): Steel Retrofitting Solutions for Collective Buildings by Interior Repartitioning. Design, Fabrication and Economy of Metal Structures, Proceedings of the International Conference, Miskolc, Hungary, 24-26.04.2013, 601-606, Springer-Verlag, ISBN 978-3-642-36690-1.

Botici A.A., Ungureanu V., **Ciutina A.**, Botici A., Dubina D. (2013): Sustainable retrofitting of large panel prefabricated concrete residential buildings. Central Europe Towards Sustainable Building 2013-Sustainable Building and Refurbishment for Next Generations. 39-42 (+CD), Praga, Czech Republic, 26-28.06.2013, ISBN 978-80-247-5015-6.

C. Vulcu, A. Stratan, **A. Ciutina**, D. Dubina, „Experimental Evaluation of the Steel-Concrete Connection in Case of Concrete-Filled Rectangular Hollow Sections (CF-RHS) Columns”, Proceedings of the International Workshop within the framework of RFCS-CT-2009-00024 „HSS-SERF” Research Project, June 28-29 2013, Naples, Italy, pp. 95-104, Orizonturi Universitare, ISBN 978-973-638-552-0.

C. Vulcu, A. Stratan, **A. Ciutina**, D. Dubina, „Experimental Evaluation of Welded Reduced Beam Section (RBS) and Cover Plate (CP) beam to CF-RHS Column Joints”, Proceedings of the International Workshop within the framework of RFCS-CT-2009-00024 „HSS-SERF” Research Project, June 28-29 2013, Naples, Italy pp. 105-120, Orizonturi Universitare, ISBN 978-973-638-552-0.

C. Vulcu, A. Stratan, **A. Ciutina**, D. Dubina, A. Kopp „Numerical Investigation of Welded RB Sand CP beam-to-CF-RHS Column Joints”, Proceedings of the International Workshop within the framework of RFCS-CT-2009-00024 „HSS-SERF” Research Project, June 28-29 2013, Naples, Italy pp. 121-136, Orizonturi Universitare, ISBN 978-973-638-552-0.

A. Ciutina, Ungureanu V., Dubina D., Grecea D. (2013): Integrated design applied in thermal retrofitting solutions for residential buildings. Proc. of the 2nd International Conference on Structures and Architecture: Concepts, Applications and Challenges – Cruz (ed), 187-188

(615-622 on CD), 24-26.07.2013, Guimaraes, Portugal, CRC Press, Taylor & Francis Group, London, ISBN 978-0-415-66195-9.

A.A. Botici, V. Ungureanu, **A. Ciutina**, A. Botici & D. Dubina, "Architectural and Structural Retrofitting Solutions for Large Precast Concrete Residential Buildings", proceedings of the INDIS 2012 conference: Planning, design, construction and building renewal, 28-30 November 2012 Novi Sad, Serbia ISBN 978-86-7892-453-8, pp. 530-540.

V. Ungureanu., **A. Ciutina**, I. Tuca, D. Dubina, D. Grecea, L. Fulop, "Structural and Environmental Performance of Steel Framed Houses: A Case Study". Summary report of the Cooperative Activities. Cost Action C25. Volume 1: Integrated approach towards sustainable constructions, ISBN 978-99957-816-1-3, pp. 395-428.

A.A. Botici, V. Ungureanu, **A. Ciutina**, A. Botici & D. Dubina "Sustainable retrofitting solutions for precast concrete residential buildings", Proceedings of the Life-Cycle and Sustainability of Civil Infrastructure Systems, Vienna, Austria, 03-06.10 2012, ISBN 978-0-415-62126-7, pp. 357+ CD (1722-1729).

V. Ungureanu, **A. Ciutina**, D. Dubina "Sustainable thermal retrofitting solutions for multi-story residential buildings", Proceedings of the Life-Cycle and Sustainability of Civil Infrastructure Systems, Vienna, Austria, 03-06.10 2012, ISBN 978-0-415-62126-7, pp. 361 + CD (1753-1760).

A. Dincă, I. Marcu, **A. Ciutina**, V. Ungureanu, „Integrated pre-Design for High Performance Buildings”, Proceedings of the Workshop on Concepts and Methods for Steel Intensive Building Projects, Munich, 08 May 2012, pp. 143-156, ECCS, TC14 No. 130/2012, ISBN 978-92-9147-106-5.

E. Grodzicka, V. Dehan, H. Koukkari, E.A. Zukowska, A. Dincă, I. Marcu, **A. Ciutina** and V. Ungureanu, „Competitiveness and Sustainability of Steel-Intensive Solutions”, Proceedings of the Workshop on Concepts and Methods for Steel Intensive Building Projects, Munich, 08 May 2012, pp. 181-194, ECCS, TC14 No. 130/2012, ISBN 978-92-9147-106-5.

V. Ungureanu, **A. Ciutina**, D. Dubina, „Analyses of sustainability and environmental impacts of steel framed buildings – example from practice in Romania”, Proceedings of the 9th , Symposium on Building Physics. Volume 3. 29.05-02.06.2011. Tampere, Finland, ISBN: 978-952-15-2576-6, pp. 1347-1354.

G. Danku, **A. Ciutina**, D. Dubina "Influence of shear connection on the development of plastic hinges in composite beams in shear or bending", Proceedings of the 6th European Conference on Steel and Composite Structures. Budapest, Hungary, 31.08-02.09 2011, ISBN 978-92-9147-103-4, pp. 1047-1053.

V. Ungureanu, **A. Ciutina**, D. Dubina "Sustainable steel framed building – Case study", Proceedings of the 6th European Conference on Steel and Composite Structures. Budapest, Hungary, 31.08-02.09 2011, ISBN 978-92-9147-103-4, pp. 1971-1976.

I. Tuca, D. Dubina, **A. Ciutina**, V. Ungureanu "Solutions for thermal renovation of precast concrete wall panels – Case study", Proceedings of the International Conference: Sustainability of Constructions – Towards a better built environment. Innsbruck, Austria, 3-5.02.2011, ISBN 978-999957-816-0-6, pp. 509-518.

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Florea Dinu, Dan Dubina, **A. Ciutina** "Robustness performance of seismic resistant building frames under abnormal loads" proceedings of: „Structures and Architecture”, Guimaraes, Portugal, 21-23 July 2010, ISBN 978-0-415-49249-2 .

D. Dubina, V. Ungureanu, **A. Ciutina**, M. Mutiu, D. Grecea "Innovative sustainable steel framing based affordable house solution for continental seismic areas" proceedings of: „Structures and Architecture”, Guimaraes, Portugal, 21-23 July 2010, ISBN 978-0-415-49249-2

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D. Dubina, A. Stratan, **A. Ciutina** "Components and macrocomponents of rotation capacity of moment connections", Proceedings of XX Congresso C.T.A. "Advances in Steel Constructions", 26-28 September 2005, Ischia, Italia, Ed. ACS ACAI Servizi, Milano, 2005, 409-418.

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D. Grecea, A. Stratan, **A. Ciutina**, D. Dubina, "Rotation capacity of MR beam-to-column joints under cyclic loading" proceedings of ECCS/AISC, Workshop Connections in Steel Structures, 3-5 June 2004, Amsterdam, published by Bowen met Staal, Boerhaavelaan p. 141-154 .

D. Dubina, A. Stratan, **A. Ciutina**, L. Fulop, N. Zsolt. "Strength, stiffness and ductility of cold-formed steel bolted connections" proceedings of ECCS/AISC, Workshop Connections in Steel Structures, 3-5 June 2004, Amsterdam, published by Bowen met Staal, Boerhaavelaan p. 263-272 .

J.M. Aribert, **A. Ciutina**, D. Dubina. "Seismic Response Of Composite Structures Including Actual Behaviour Of Beam-To-Column Joints", Proceedings of Composite Construction In Steel And Concrete V: July 18-23, 2004 The Kruger National Park Conference Centre Berg-en-Dal, Mpumalanga, South Africa Ed. by the American Society of Civil Engineers – ASCE, ISBN 0-7844-0826-2, pp. 708-718 .

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