



Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Andreea CĂSUȚĂ (Duțu)**

Address(es) Bucharest, Romania

E-mail andreea.dutu@utcb.ro

Nationality Romanian

Gender Female

Birth date 23.08.1983

Work experience

Dates October 2016 - present

Occupation or position held Lecturer

Main activities and responsibilities Teaching and Research on Traditional Timber Buildings, Construction Engineering, Seismic isolation and damping technologies

Name and address of employer Technical University of Civil Engineering Bucharest, Department of Civil Engineering

Dates September 2012 - present

Occupation or position held Assistant professor

Main activities and responsibilities Construction engineering - teaching

Name and address of employer Technical University of Civil Engineering Bucharest, Department of Civil Engineering

Dates December 2013 – September 2014

Occupation or position held JSPS (Japan Society for Promotion of Science) Postdoctoral Researcher

Main activities and responsibilities Research on Timber Framed Masonry Structures

Name and address of employer Tokyo Institute of Technology, Structural Engineering Research Center, Sakata Laboratory

Dates April 2013 – November 2013

Occupation or position held Researcher

Main activities and responsibilities Research on Timber Framed Masonry Structures

Name and address of employer Tokyo Institute of Technology, Structural Engineering Research Center, Sakata Laboratory

Dates May 2012 – March 2013

Occupation or position held GCOE (Global Center of Excellence) Postdoctoral Researcher

Main activities and responsibilities Experimental Research on Timber Framed Masonry Structures

Name and address of employer Tokyo Institute of Technology, Center for Urban Earthquake Engineering, Hayashi /Sakata Laboratory

Dates	October 2011- May 2012
Occupation or position held	Researcher (CSIII)
Main activities and responsibilities	Research, issuing technical approvals, testing on building elements and structures
Name and address of employer	National Institute For Research And Development In Construction, Urban Planning And Sustainable Spatial Development “URBAN-INCERC”, INCERC Bucharest Branch

Dates	June 2008- September 2011
Occupation or position held	Research assistant (ACS)
Main activities and responsibilities	Research, issuing technical approvals, testing on building elements and structures
Name and address of employer	National Institute For Research And Development In Construction, Urban Planning And Sustainable Spatial Development “URBAN-INCERC”, INCERC Bucharest Branch

Training

Dates	February 2025
Title of qualification awarded	Training certificate on Challenge Based Learning
Principal subjects/occupational skills covered	How to implement such a teaching approach to the courses that we teach
Name and type of organisation providing education and training	EU-CONEXUS Teaching Academy

Dates	February 2024
Title of qualification awarded	Training certificate on Teaching Pedagogies & Soft Skills
Principal subjects/occupational skills covered	Principle on how to transfer also soft skills to our students
Name and type of organisation providing education and training	EU-CONEXUS Teaching Academy

Dates	June-October 2023
Title of qualification awarded	Training certificate on Micro-Credentials: Concept, Opportunities and Design
Principal subjects/occupational skills covered	Principle on building a Micro-credential course
Name and type of organisation providing education and training	EU-CONEXUS Teaching Academy

Dates	July 2021
Title of qualification awarded	Passing and completion certificate
Principal subjects/occupational skills covered	ARCH301x: Japanese Architecture and Structural Design
Name and type of organisation providing education and training	Tokyo Institute of Technology.

Dates	October 2019
Title of qualification awarded	Graduation certificate
Principal subjects/occupational skills covered	Expert in European structural and cohesion funding application
Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest

Dates	June 2015
Title of qualification awarded	Pedagogy module I and II
Principal subjects/occupational skills covered	Teaching methods and psychology of teaching

Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest
Dates	October 2010
Title of qualification awarded	Training certificate
Principal subjects/occupational skills covered	Introduction in the field of rehabilitation of existing buildings
Name and type of organisation providing education and training	FunDEC, Technical University of Lisbon, Portugal

Education

Dates	May 2025
Title of qualification awarded	Habilitation
Principal subjects/occupational skills covered	Structural Engineering
Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest
Dates	October 2008 – September 2011
Title of qualification awarded	Doctor of Engineering
Principal subjects/occupational skills covered	Structural Engineering
Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest
Dates	October 2007 – July 2008
Title of qualification awarded	Postgraduate diploma
Principal subjects/occupational skills covered	Construction Management
Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest
Dates	October 2002 – July 2007
Title of qualification awarded	M. Sc.
Principal subjects/occupational skills covered	Civil Engineering
Name and type of organisation providing education and training	Technical University of Civil Engineering Bucharest
Dates	September 1998 – June 2002
Title of qualification awarded	College Diploma
Principal subjects/occupational skills covered	Mathematics-Physics
Name and type of organisation providing education and training	National College “Bogdan Petriceicu Hasdeu ” Buzau

Research stages

Period	September 2015 – November 2015
Location	University Grenoble-Alpes (Joseph Fourier)
Department	3SR – Structures, Solids and Risks
Supervisors	Prof. Laurent Daudeville, Dr. Stephane Grange, Dr. Yannick Sieffert
Domain	Numerical methods for applied nonlinear mechanics
Period	October 2014
Location	Lanzhou University of Technology, China
Department	Institute of Earthquake Protection and Disaster Mitigation
Supervisors	Prof. YongFeng Du
Domain	Base isolation building investigation
Period	January 2012 – February 2012
Location	Kandilli Observatory for Earthquake Research Institute (KOERI) Istanbul, Turkey
Department	Earthquake Engineering Department
Supervisors	Dr. Can Zulfikar
Domain	Application of ELER (earthquake loss estimation routine) for Vrancea seismic hazard
Dates	June 2010 – April 2011
Location	Technical University of Lisbon, Instituto Superior Tecnico, Portugal
Department	Civil engineering department, Construction and technology section
Supervisors	Prof. Fernando Branco, Prof. João Gomes Ferreira
Domain	Structural rehabilitation of civil existing buildings

Mother tongue(s) Romanian

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
<i>European level (*)</i>	Listening		Reading		Spoken interaction		Spoken production			
English	C1 Proficient user		C1 Proficient user		C1 Proficient user		C1 Proficient user		C1 Proficient user	
Japanese	B1	Independent user	B2	Independent user	A1	Basic user	A1	Basic user	A1	Basic user
French	B1	Independent user	B2	Independent user	A2	Basic user	A1	Basic user	A2	Basic user
Portuguese	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

Certifications Authorization to control cranes with ground control (traveling cranes) - E type

Research projects

(director)

1. **PN-II-RU-TE-2014-4-2169** – Young Research Teams (UEFISCDI Romania), budget 125 000 euro, 2015-2017 “ Seismic evaluation method for traditional Romanian houses”, TFMRO, tfmro.utcb.ro

Results from the project TFMRO:

- Dutu, A. (2021). An engineering view on the traditional timber frames with infills in Romania. In R. RUPAKHETY & D. GAUTAM (Eds.), *Masonry Construction in Active Seismic Regions* (1st ed., pp. 377–420). Elsevier.
- Duțu, A., Niste, M., Spatarelu, I., Dima, D. I., & Kishiki, S. (2018). Seismic evaluation of Romanian traditional buildings with timber frame and mud masonry infills by in-plane static cyclic tests. *Engineering Structures*, **Q1**, 167(February), 655–670. <https://doi.org/10.1016/j.engstruct.2018.02.062>
- Duțu, A., Sakata, H., & Yamazaki, Y. (2015). Experimental Study on Timber-Framed Masonry Structures. *Historical Earthquake-Resistant Timber Frames in the Mediterranean Area*, 67–81. https://doi.org/10.1007/978-3-319-16187-7_6
- Dutu, A., Yamazaki, Y., & Sakata, H. (2018). Shear spring model proposed for seismic evaluation of a timber framed masonry infilled wall. *Engineering Structures*, **Q1**, <https://doi.org/10.1016/j.engstruct.2018.02.061>
- F. Parisse, “Numerical modelling of the seismic performance of romanian traditional timber framed buildings.,” University of Minho, 2019.
- F. Parisse, E. Poletti, A. Dutu, and H. Rodrigues, “Numerical modeling of the seismic performance of Romanian timber-framed masonry walls,” *Eng. Struct.*, **Q1**, vol. 239, no. June 2020, p. 112272, 2021, doi: 10.1016/j.engstruct.2021.112272.
- Duțu A., Sakata H., Yamazaki Y., Shindo T.,(2016). “Influence of an AFRP retrofit solution when applied to timber framed masonry panels”, Proceedings of World Conference of Timber Engineering, WCTE 2016, August 22-25, Vienna (pdf – Contribution980_a_final)
- Dima D.I., Duțu A., (2016). ” Traditional buildings with timber frame and various infills in Romania”, Proceedings of World Conference of Timber Engineering, WCTE 2016, August 22-25, Vienna (pdf – Dima, Dutu_ID745)
- Duțu A., Sakata H., Yamazaki Y.,(2017). ”Comparison between different types of connections and their influence on timber frames with masonry infill structures’ seismic behavior”, 16th World Conference on Earthquake Engineering, 16WCEE 2017, Santiago Chile, January 9th to 13th 2017

Duțu A., Dima D.I., Bulimar E.G., (2017). "Materials and techniques for traditional Romanian residential houses", 3rd International Conference on Protection of Historical Constructions, 12 – 15 July 2017 . Lisbon | Portugal

Bulimar E., Dutu A., Dima D.I., Ietan R., (2017). "Seismic analysis of timber frames with infills in Romania", 4th International Conference on Structural Health Assessment of Timber Structures, SHatis'17, 19-22 September 2017. Istanbul, Turkey

Poletti E., Dutu A., Ruggieri N., Vieux-Champagne F., (2017). "Historic timber frame structures: a comparison of different constructive systems and their resistance to seismic actions", the International Conference on Structural Health Assessment of Timber Structures, SHatis'17, 19-22 September 2017. Istanbul, Turkey

- 2. PN-III-P2-2.1-PED-2016-1073** – Experimental Demonstrative Project (UEFISCDI Romania), budget 130 000 euro, 2017-2018 "Revival of Romanian traditional houses with modern solutions and local, natural materials", TRAROM, trarom.utcb.ro

Results from the project TRAROM:

A. Dutu, D. Barbu-Mocanescu, M. Niste, I. Spatarelu, and Y. Yamazaki, "In-plane static tests on a structural timber frame system proposal (TRAROM) inspired from traditional architecture and using local materials," Eng. Struct., vol. 212, no. March, p. 110491, 2020, doi: 10.1016/j.engstruct.2020.110491.

A. Dutu, M. Niste, I. Spatarelu, D. Barbu-Mocanescu, D. Kober, and S. Kishiki, "Seismic Performance of a Newly Proposed Structural Timber Wall System (TRAROM) with Simple Nailed Connections," Int. J. Archit. Herit., vol. 15, no. 2, pp. 259–273, 2021, doi: 10.1080/15583058.2020.1805044

F Pavel, A Dutu, E Noroozinejad Farsangi, (2022), "Seismic Loss Estimation Using Experimental Fragility and Vulnerability Functions: Case Study of Buzau County, Romania", Natural Hazards Review 23 (1), 05021016

Andreea Dutu, Valentin Nicula, Daniel Barbu-Mocanescu, Mihai Niste, Iulian Spatarelu and Shoichi Kishiki, (2020) "EXPERIMENTAL AND NUMERICAL ANALYSIS OF A NEWLY PROPOSED STRUCTURAL TIMBER WALL (TRAROM)", Conference: 17th World Conference on Earthquake Engineering, September 2020, At: Sendai, Japan

Andreea Dutu, Mihai Niste, Iulian Spatarelu, Daniel Barbu-Mocanescu, Dietlinde Kober and Shoichi Kishiki, (2019), "Influence of timber connections in the proposed structural wall system (TRAROM)", 5th International Conference on Structural Health Assessment of Timber Structures (SHATIS), 25-27 September, Guimarães, Portugal

Andreea DUTU, Mihai NISTE, Iulian SPATARELU, (2018) "In-plane static cyclic tests on traditional Romanian houses' walls", 16 European Conference on Earthquake Engineering (16ECEE), Thessaloniki, Greece, June 18-21, 16ECEE-12033-Dutu

Andreea Dutu, Sakata H., Yamazaki Y.(2018) "Simplified seismic evaluation method for timber frames with masonry infills", Eleventh U.S. National Conference on Earthquake Engineering (11NCEE),

Integrating Science, Engineering & Policy, Los Angeles, California, June 25-29, 2018, 1207_Dutu

Dutu A., Barbu Mocanescu D., Niste M., Spatarelu I., Kober D., (2018) “Revival of Romanian traditional houses with modern solutions and local, natural materials (Trarom Project)”, International Multidisciplinary Scientific GeoConference SGEM, June 30th-July 9th, Bulgaria, sgem_paper_AD

Dutu A., Sakata H., Yamazaki Y., Niste M., Spatarelu I., (2018), “Influence of axial force application in the behavior of timber framed masonry walls under in-plane static cyclic loading “, World Conference on Timber Engineering (WCTE), Seoul, Republic of Korea, August 20-23, WCTE_2018_PaperTemplate-AD-full paper

- 3. PN-III-P2-2.1-PED-2021-1428** – Experimental Demonstrative Project (UEFISCDI Romania), budget 130 000 euro, 2022-2024 “Appropriate strengthening methods for the Romanian traditional ”paiantă” house” tfmro.utcb.ro

Results from the project STRONGPA:

S Mey, I Hirano, A Dutu, M Niste, D Mocanescu, S Kishiki (2025), Extensive experimental study on five types of paianta walls-StrongPa project”, Engineering Structures 331, <https://doi.org/10.1016/j.engstruct.2025.120003>

Dutu, Andreea, Mihai Niste, Iolanda-Gabriela Craifaleanu, and Marina Gingirof. (2023). "Construction Techniques and Detailing for Romanian Paiantă Houses: An Engineering Perspective" Sustainability 15, no. 2: 1344. <https://doi.org/10.3390/su15021344>

Dutu, Andreea, Sakata Hiroyasu, Yamazaki Yoshihiro, (2024), “Seismic Resistance of Vernacular Timber Frames with Infills: Case Studies from Romania and Japan”, Taylor and Francis, CRC Press

- 4. MSL Collaborative Research Projects (2014-2024)**, anual, buget ~300 000 yen, finanțat de Tokyo Institute of Technology, Japonia

Results from the project MSL:

Andreea Dutu, Kit Miyamoto, Giulia Jole Sechi, Shoichi Kishiki, (2022) “Timber framed masonry houses: resilient or not?”, 3rd European Conference on Earthquake Engineering and Seismology (3ECEES), September, Bucharest, Romania

Participation in research projects (as a member)

National Research Program - PN 06-11.01.01 (Romania) Modern methods, at European level, for design and realization of new buildings and rehabilitation of existing buildings, made of precast elements

National Research Program - PN 09 14 (Romania) Rehabilitation of buildings made of prefabricated elements and panels, in order to meet the demands imposed by ensuring compliance with European requirements and ensure the concepts of performance required in seismic zones

Technical regulation (Romania) National Annex SR EN 1996-1-2 Fire resistance for masonry

REABEPA - PTDC/ECM/100168/2008 (Portugal)

Structural rehabilitation of masonry walls in old buildings NERA project – Work package TA1 (Turkey) Database with vulnerable buildings for post-earthquake intervention. Earthquake loss estimation for Romania seismicity

Awards TIEMS 2011 BEST STUDENT PAPER AWARD, June 2011, The 18th annual TIEMS conference (The International Emergency Management Society)

Best presentation award in recognition of outstanding contributions by a young researcher - 9th International Conference on Urban Earthquake Engineering/4th Asia Conference on Earthquake Engineering, March 6-8, 2012, Tokyo Institute of Technology, Tokyo, Japan

Special Mention for Academic Excellence from the Romanian Students Abroad League, Section Other Continents, January 2015, Bucharest, Romania

Professor of the Year 2017 at the Faculty of Engineering in Foreign Languages, UTCB, awarded at the Gala of Excellence Awards in Education and Research at UTCB, December 2017.

Researcher of the Year 2018 at the Faculty of Engineering in Foreign Languages, UTCB, awarded at the Gala of Excellence Awards in Education and Research at UTCB, December 2018.

Researcher of the Year 2022 at the Faculty of Engineering in Foreign Languages, UTCB, awarded at the Gala of Excellence Awards in Education and Research at UTCB, May 2023.

Invited lectures

Tokyo Institute of Technology, Kishiki Laboratory, Japan, February 21th 2024. **“STRONGPa project: Appropriate strengthening methods for the Romanian traditional ”paiantă” house”**

“GLOBAL WEBINAR ON SUSTAINABLE & EARTHQUAKE RESILIENT STRUCTURES”, (2022), September 29th, Organizer: Prof. Hamood Alwashali, Green Innovation Center, Okayama University, Japan, title of the lecture: **“New lightweight timber houses, based on traditional architecture”**

17th WORLD CONFERENCE ON SEISMIC ISOLATION IN TORINO, (2022), “Seismic isolation applications in Romania”, September

Round table: “Vulnerability of human settlements to natural hazards: A cross between science and local knowledge, diagnosis and decision support, reconstruction and resilience” Summer School RISK@UGA 2022 FROM AUGUST 29, 2022 TO AUGUST 31, 2022, THEMATIC PROGRAM RISK GRADUATE SCHOOL GS@UGA UNIVERSITÉ GRENOBLE ALPES & GRENOBLE INSTITUTE RISK & RESILIENCE UNIVERSITÉ GRENOBLE ALPES, title of the lecture: **“Seismic evaluation of Romanian traditional houses with timber skeleton and various infills”**

China-Europe Forum on Retrofitting of Historical Buildings, Online Platform Tencent Meeting, July 29, 2021, Organized by Lanzhou University of Technology and ASSISi during the 9th Chinese national conference on structural retrofitting (CNSR9) July 28-30, **2021**, **“Seismic isolation applications in Romania”**

Opening of the bilingual (Chinese/English) course “Optimum structural Design for senior undergraduate students”, title of the lecture: **“Traditional timber frames in Romania”**, in Lanzhou University of Technology, China, May 27, **2020**

Tokyo Institute of Technology, Kishiki Laboratory, Japan, February 19th **2018**. **“Seismic evaluation and improvement of Romanian traditional buildings with timber structure and various infills”**

Tohoku University, Maeda Laboratory, Japan, February 17th **2018**. title of the lecture: **“Seismic evaluation and improvement of Romanian traditional buildings with timber structure and various infills”**

Tsinghua University, Ji Laboratory, June 28th, **2017**, title of the lecture: **“Traditional Romanian timber frames with infills”**

Institute of Earthquake Mechanics (IEM), Beijing, China, June 27th, **2017**, title of the lecture: **“Traditional Romanian timber frames with infills”**

University Grenoble-Alpes, 3SR Laboratory, Grenoble, October 23rd, **2015**, title of the lecture: **“Timber Framed Masonry Structures, an Earthquake Resistant Influenced Architecture”**

Institute of Earthquake Mechanics (IEM), Beijing, China, October 28th, **2014**. title of the lecture: **“Seismic behavior of timber frames with masonry infills”**

Lanzhou University of Technology, Institute of Earthquake Protection and Disaster Mitigation, China, October 21st, **2014**. title of the lecture: **“Seismic behavior of timber frames with masonry infills”**

Tohoku University, Maeda Laboratory, Japan, September 26th, **2013**. title of the lecture: **“Study on timber framed masonry panels retrofitted with aramid fiber reinforced polymers (AFRP)”**

Tokyo Institute of Technology, Japan, Center for Urban Earthquake Engineering, August 25th, **2012**. title of the lecture: **“Study on earthquake behavior of timber framed masonry buildings”**

Kandilli Observatory for Earthquake Research Institute (KOERI) Istanbul, Turkey, January 12th, **2012**. title of the lecture: **“Aspects regarding the seismic analysis of timber framed masonry structures”**

Research proposals reviewer

HORIZON-CL6-2024-CLIMATE-01-5: Climate-smart use of wood in the construction sector to support the New European Bauhaus of the Call Land, oceans and water for climate action (HORIZON-CL6-2024-CLIMATE-01)

ARUT – Research grants for young researchers (evaluator)

COST Action (EU)

RI in the Danube area - ResInfra@DR

- Committees** ISO Member on behalf of ASRO in the Technical Committee ISO/TC98- SC2-WG13 - Bases for design of structures - General Principles of Seismically Isolated Structures
- Member in Technical Committee CEN 343
- Organizations** Member of the scientific council of the European Center for Buildings Rehabilitation - ECBR within EUR-OPA Major Hazards Agreement of European Council General (2010-2012)
- Secretary of the Board in TIEMS Young Scientists Network (2011~)
- Member of Earthquake Engineering Research Institute (2014-2020)
- Member of Architectural Institute of Japan (2013-2014)
- Member of Historic Timber Frames in Seismic Zones (2015~)
- Member in the International Association for Bridge and Structural Engineering (IABSE) (2015)
- Member in Anti-Seismic System International Society (ASSISi) – elected in the Board of Directors for 2023-2027**
- Member in Corpul de experți din Registrului Național al Experților (National Experts Body) for the research and development activity certification. The field of intelligent specialty at the national level: 6. Environment and eco-technologies 2023~
- Member in the Young and Middle-Aged Scientists Committee of International Research Base of Seismic Mitigation and Isolation of Gansu Province (2022-2027)
- Member in the Registrului de experți ai Comisiei Naționale de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (The register of experts of the National Commission for the Attestation of University Titles, Diplomas and Certificates), 2024-2028

Publications

- Published book, chapters** Dutu, A., & Yamazaki, Y. (2024). Seismic Resistance of Vernacular Timber Frames with Infills: Case Studies from Japan and Romania (1st ed.). CRC Press.
<https://doi.org/10.1201/9781003405375>
- Dutu, A., Iordachescu, A., Mocanu, D., Soveja, L. (2023). Seismic Isolation Applications in Romania. In: Cimellaro, G.P. (eds) Seismic Isolation, Energy Dissipation and Active Vibration Control of Structures. WCSI 2022. Lecture Notes in Civil Engineering, vol 309. Springer, Cham. https://doi.org/10.1007/978-3-031-21187-4_3
- Andreea Dutu, Daniel Mocanescu, Book Chapter, (2022), “Seismic Vulnerability Assessment of Civil Engineering Structures at Multiple Scales From Single Buildings to Large-Scale Assessment, Elsevier

Andreea Dutu, Book Chapter 14th: An engineering view on the traditional timber frames with infills in Romania”, *Masonry Construction in Active Seismic Regions*, 1st Edition, Elsevier, Editors: Rajesh Rupakhety Dipendra Gautam, Paperback ISBN: 9780128210871, Imprint: Woodhead Publishing, Published Date: 3rd May (2021)

Andreea Casuta (Dutu), (2021), “Introduction to the construction engineering of seismic isolated buildings”, *MatrixRom*

I. Spătăreanu, A. Duțu, M. Niste, „Construction Engineering: Project Guideline”, ISBN 978973-100-419-8, Editura Conspress (2016)

“Historical Earthquake-Resistant Timber Frames in the Mediterranean Area”, Editors: Nicola Ruggieri, Gennaro Tampone, Raffaele Zinno, Chapter 6 “Experimental study on timber framed masonry structures”, Dutu A., Sakata H., Yamazaki Y., Springer (2015)

Published journal papers (peer-reviewed)

S Mey, I Hirano, A Dutu, M Niste, D Mocanescu, S Kishiki (2025), Extensive experimental study on five types of paianta walls-StrongPa project”, *Engineering Structures* 331, <https://doi.org/10.1016/j.engstruct.2025.120003>

Dutu, Andreea, Mihai Niste, Iolanda-Gabriela Craifaleanu, and Marina Gingirof. (2023). "Construction Techniques and Detailing for Romanian Paiantă Houses: An Engineering Perspective" *Sustainability* 15, no. 2: 1344. <https://doi.org/10.3390/su15021344>

Florin Pavel, Andreea Dutu, Ehsan Noroozinejad Farsangi, (2022) Seismic Loss Estimation Using Experimental Fragility and Vulnerability Functions: Case Study of Buzau County, Romania, February 2022, *Natural Hazards Review*

Mohamed Issa, Andreea Dutu, Iolanda-Gabriela Craifaleanu, Matsutaro Seki (2021), “Numerical analysis of a reinforced concrete frame with masonry infill under seismic loading”, *CONSTRUCTII Journal*

Alexandru Aldea, Andreea Dutu, Sorin Demetriu, Daniel Dima, (2021) DYNAMIC PROPERTIES IDENTIFICATION FOR A TIMBER FRAMED MASONRY HOUSE, *CONSTRUCTII Journal*

Parrise F, Polletti E., Dutu A., Rodrigues H., (2021), “Numerical modeling of the seismic performance of Romanian timber-framed masonry walls”, *Engineering Structures*, Volume 239, 112272

Cristian Petcu, Daniel Barbu-Mocanescu, Andreea Dutu, (2021), “A SUSTAINABLE SOLUTION FOR PREFABRICATED RESIDENTIAL BUILDINGS”, *Revista Urbanism. Arhitectură. Construcții*, Vol. 12 • Nr. 2 • 2021

Andreea Dutu, Mihai Niste, Iulian Spatarelu, Daniel Barbu-Mocanescu, Dietlinde Kober & Shoichi Kishiki (2020) Seismic Performance of a Newly Proposed Structural Timber Wall System (TRAROM) with Simple Nailed Connections, *International Journal of Architectural Heritage*, DOI: 10.1080/15583058.2020.1805044

Dutu Andreea, Daniel Barbu-Mocanescu, Mihai Niste, Iulian Spatarelu, and Yoshihiro Yamazaki. 2020. “In-Plane Static Tests on a Structural Timber Frame System Proposal (TRAROM) Inspired from Traditional Architecture and Using Local Materials.” *Engineering Structures* 212 (March): 110491. <https://doi.org/10.1016/j.engstruct.2020.110491>

Alexandru ALDEA, Andreea DUTU, Sorin DEMETRIU, Daniel I. DIMA, (2020) “Dynamic properties identification for a timber framed masonry house”, *Constructii: Journal of Civil Engineering Research*, No.1/2020, ISSN 1221-2709, e-ISSN 2247-0328

Dutu A., Yamazaki Y., Sakata H., (2018) "Shear spring model proposed for seismic evaluation of a timber framed masonry infilled wall", *Engineering Structures*, Volume 167, 15 July 2018, Pages 671-682

- Dutu A., Niste M., Spatarelu I., Dima D.I., Kishiki S., (2018) "Seismic evaluation of Romanian traditional buildings with timber frame and mud masonry infills by in-plane static cyclic tests", *Engineering Structures*, Volume 167, 15 July 2018, Pages 655-670
- Dutu, A., Sakata, H., Yamazaki, Y., and Shindo, T. (2015). "In-Plane Behavior of Timber Frames with Masonry Infills under Static Cyclic Loading." *J. Struct. Eng.*, 10.1061/(ASCE)ST.1943-541X.0001405 , 04015140.
- Qu Z., Dutu A., Zhong J., and Sun J. (2015) Seismic Damage to Masonry-Infilled Timber Houses in the 2013 M7.0 Lushan, China, Earthquake. *Earthquake Spectra*: August 2015, Vol. 31, No. 3, pp. 1859-1874.
- Dutu, A., Ferreira, J.G. and Sandu, C. (2013) 'Incremental seismic rehabilitation concept for Romanian civil buildings integrated in natural hazards prevention management', *Int. J. Emergency Management*, Vol. 9, No. 3, pp.248–257.
- Ferreira, J. G., Teixeira, M. J., Duțu, A., Branco, F., Goncalves, A., (2012) "Experimental Evaluation and Numerical Modelling of Timber Framed Walls", *Experimental techniques*, Volume 38, Issue 4, pages 45–53, July/August 2014, DOI: 10.1111/j.17471567.2012.00820.x
- Duțu, A., Ferreira, J. G., Guerreiro, L., Branco, F., Goncalves, A. (2012) "Timbered masonry for earthquake resistance in Europe", *Materiales de Construcción*, Vol. 62, 308, 615-628, octubre-diciembre 2012. ISSN: 0465-2746. doi: 10.3989/mc.2011.01811
- Duțu, A., Ferreira, J. G., Goncalves, A., Covaleov A., (2012) "Components interaction in timber framed masonry structures subjected to lateral forces", *Constructii: Journal of Civil Engineering Research*. 2012;13(1)62-67, ISSN: 1221-2709 (Print); 2247-0328 (Online)

Published conference papers

- A. Dutu., (2024), „Why traditional timber frames with infills stand up”, 18th World Conference on Earthquake Engineering (WCEE2024) in Milan, Italy, from 30th June to 5th July 2024
- A. Dutu, I. Hirano, S. Mey, M. Niste, D. Mocanescu, S. Kishiki, I.G. Craifaleanu, (2024), „Strengthening solutions for traditional Romanian paianta houses: overview of the strongpa project”, 18th World Conference on Earthquake Engineering (WCEE2024) in Milan, Italy, from 30th June to 5th July 2024
- D. Sen, M. Hassan, A. Dutu, M. Seki, M. Maeda, (2024), „Simulation of lateral behaviour of un-strengthened and fc strengthened masonry infilled RC frame”, 18th World Conference on Earthquake Engineering (WCEE2024) in Milan, Italy, from 30th June to 5th July 2024
- Stefan Marin, Dan Iancu, Andreea Dutu, (2023), „Newly constructed seismically isolated buildings in Romania”, The 18th World Conference on Seismic Isolation, Energy Dissipation, and Active Vibration Control of Structures (18WCSI), Antalya, Turkey, 6-10 November 2023
- Andreea DUTU, Adrian IORDACHESCU, Dragos MOCANU, and Lucian SOVEJA, (2022), “Seismic isolation applications in Romania”, 17th World conference on seismic isolation in Torino (17WCSI), Italy
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31.03.2025

