



## Europass Curriculum Vitae



### Personal information

**Surname(s) / First name(s)** DINU Florea  
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**Nationality** Romanian  
**Date of birth** 26.07.1969  
**Gender** Male

### Occupational field Academic

### Work experience

<b>Dates</b>	2014 -
<b>Occupation or position held</b>	Professor
<b>Main activities and responsibilities</b>	Teaching and research: Steel structures; Special metal structures; Robustness of structures; Multi storey buildings
<b>Name and address of employer</b>	Politehnica University Timisoara
<b>Type of business or sector</b>	Academic
<b>Dates</b>	2007 – 2014
<b>Occupation or position held</b>	Associate Professor
<b>Main activities and responsibilities</b>	Teaching and research: Steel structures; Special metal structures; Robustness of structures; Multi storey buildings; Advanced analysis of frame structures
<b>Name and address of employer</b>	"Politehnica" University of Timisoara
<b>Type of business or sector</b>	Academic
<b>Dates</b>	2005 – 2007
<b>Occupation or position held</b>	Senior lecturer
<b>Main activities and responsibilities</b>	Teaching and research: Structural mechanics, Steel structures; Stability of steel structures; Non-linear analysis of structures; Safety of constructions under extreme loads
<b>Name and address of employer</b>	"Politehnica" University of Timisoara
<b>Type of business or sector</b>	Academic
<b>Dates</b>	2001 – 2005
<b>Occupation or position held</b>	Senior researcher

Main activities and responsibilities	Research on stability of steel structures; advanced analysis of steel structures; multi-story structures; behavior of beam to column joints; steel structures in seismic areas
Name and address of employer	Romanian Academy, Timisoara Branch
Type of business or sector	Academic
Dates	1994 – 2001
Occupation or position held	Assistant researcher
Main activities and responsibilities	Research on stability of steel structures; advanced analysis of steel structures; multi-story structures; behavior of beam to column joints; steel structures in seismic areas
Name and address of employer	Romanian Academy, Timisoara Branch
Type of business or sector	Academic
<b>Education and training</b>	
Dates	1994-2003
Title of qualification awarded	PhD, distinction <i>CUM LAUDE</i>
Principal subjects/occupational skills covered	Civil Engineering, Behavior of multi-story frames with semirigid joints
Name and type of organization providing education and training	"Politehnica" University of Timisoara
Dates	1999
Principal subjects/occupational skills covered	Training in <i>TEKLA XSteel (CAD/CAM/CAE)</i>
Name and type of organization providing education and training	Tekla office, Romania - Consoft Miercurea Ciuc
Dates	1999 (10 weeks)
Principal subjects/occupational skills covered	Research stage, COPERNICUS RECOS Project
Name and type of organization providing education and training	Technical University, Athens, Greece
Dates	1999 (1 week)
Principal subjects/occupational skills covered	<i>"Rehabilitation and Seismic Upgrading of Buildings"</i>
Name and type of organization providing education and training	International Centre For Mechanical Sciences – CISM, Udine, Italy
Dates	1998 (10 weeks)
Name and type of organization providing education and training	Technical University, Athens, Greece
Principal subjects/occupational skills covered	Research stage, COPERNICUS RECOS Project
Dates	1997 (2 weeks)
Principal subjects/occupational skills covered	Education in steel structures TEMPUS S-JEP 11297
Name and type of organization providing education and training	University of Liege, Belgium
Dates	1994-1995
Title of qualification awarded	Master's degree in Civil Engineering
Principal subjects/occupational skills covered	Rehabilitation of constructions
Name and type of organization providing education and training	"Politehnica" University of Timisoara, Civil Engineering Faculty

Dates 1989-1994  
 Title of qualification awarded Diploma in Civil Engineering  
 Principal subjects/occupational skills covered Civil engineering  
 Name and type of organization providing education and training "Politehnica" University of Timisoara, Civil Engineering Faculty  
 Level in national or international classification ISCED 6

**Personal skills and competences**

Mother tongue(s) Romanian

Other language(s)

Self-assessment

European level (\*)

English

French

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user	C2	Proficient user
B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user	B2	Independent user

(\*) Common European Framework of Reference for Languages

Social skills and competences Good communication, team coordination skills

Organizational skills and competences

- Coordinator of several national research projects and grants: Criterii de precalificare a îmbinărilor ductile ale cadrelor metalice necontravantuie, MEC – CNCISIS, Grant CNCISIS, 2005-2006; Conceptia structurala si proiectarea pe baza controlului mecanismului de cedare a structurilor multetajate supuse la actiuni accidentale CODEC, PNII-PT-PCCA 55/21012, 2012-2016
- Participation to national and international research programs (COPERNICUS- RECOS, HSS-SERF, CEEX MATNANTECH, FP7 SERIE "DUAREM, RFCS DiSTEEL)
- Member of Management Committee of COST C26 action "Urban Habitat Constructions under Catastrophic Events"
- Member of Management Committee of COST C12 action "Improvement of buildings structural quality by new technologies"
- Organization of several international and national conferences and symposiums, connected to area of interest. As reference:
  - Organizing Committee of *the International Conference in Metal Structures: Steel – A New and Traditional Material for Building*, Poiana Brasov, Romania, 20-22 September 2006;
  - Organizing Committee of *The 6th International Conference on Thin Walled Structures*, 05 – 07 September 2011, Timisoara, Romania;
  - Organizing Committee of *the VII INTERNATIONAL WORKSHOP ON CONNECTIONS IN STEEL STRUCTURES*, Timisoara 30 May - 02 June 2012.
- Invited talks (Training School for Early Stage researchers, Cost C25&Cost C26, 2010; TUKSA, 2009)
- Session chairman at international conferences (EUROSTEEL 2008, Netherland; SSCS 2010, Turkey; ICTWS 2011, Timisoara; Conference on Engineering Research University of Pécs, Pollack Mihály Faculty of Engineering, 2010, Pécs, Hungary)
- Participation at more than 40 international conferences, workshops, seminars.

Technical skills and competences

- Technical skills in the field of design of civil and industrial buildings
- Contacts with industry and experience in several fields: design and construction of steel structures
- European Convention for Constructional Steelwork ECCS - Steel Design Award 2003
- European Convention for Constructional Steelwork ECCS - Steel Design Award 2007
- Structural Engineers Association from Romania (AICPS) prize, 2004
- Structural Engineers Association from Romania (AICPS) prize, 2005
- Structural Engineers Association from Romania (AICPS) prize, 2007
- Structural Engineers Association from Romania (AICPS) prize, 2010

## Computer skills and competences

Good computer skills. Use of computer codes for structural modeling (CAD/CAM/CAE) and design (FEM), office activities and communications: SAP2000, ETABS, CSICOL, CoP, Steel Con, AXIS VM, TEKLA XSteel, ELS, STRUCAD, MULTI STEEL, AUTOCAD, MSOFFICE

## Additional information

Affiliation to professional and scientific organizations:

- AICPS (Structural Engineers Association from Romania)
- APCMR (Romanian Convention for Constructional Steelwork)
- AGIR (Romanian Association of Engineers)
- Technical Committee TC13 (Seismic Design) of European Convention for Constructional Steelwork (ECCS)
- Technical Committee TC10 (*Sustainability & Eco-Efficiency of Steel Construction*) of European Convention for Constructional Steelwork (ECCS)
- Reviewer for Journal of Structural Engineering-ASCE; Structure and Infrastructure Engineering
- Maintenance, Management, Life-Cycle Design and Performance
- PhD Defense Juries

## Annexes

Publications (selection):

ISI Papers, ISI Proceedings, IDB (selection):

1. Dubina, D., Zaharia, R., Georgescu, M., Dinu, F., Olar, Gh., Nagy, Z., Some particular problems regarding the use of light steel single-storey industrial structures in Romania, Journal of Constructional Steel Research 46 (1-3), pp. 331-334, 1998.
2. Vayas, I., Sophocleous, A., Dinu, F., Fatigue analysis of moment resisting steel frames, Journal of Earthquake Engineering 7 (4), pp. 635-654, 2003.
3. D. Grecea, F. Dinu, D. Dubina: Performance criteria for MR steel frames in seismic zones, Journal of Constr. Steel Research, Vol. 60, 2004, 739-749 Elsevier Science, U.K.
4. Dubina, D., Dinu, F., Zaharia, R., Ungureanu, V., Grecea, D., Opportunity and effectiveness of using high strength steel in seismic resistant building frames, Proceedings of the International Conference in Metal Structures - Steel - A New and Traditional Material for Building , pp. 501-510, 2006.
5. Dubina, D., Dinu, F., Stratan, A., Ciutina, A., Analysis and design considerations regarding the project of Bucharest tower centre steel structure, Proceedings of the International Conference in Metal Structures - Steel - A New and Traditional Material for Building , pp. 601-608, 2006.
6. F. Dinu, D. Dubina, Robustness of seismic resistant multistory frame buildings in case of accidental column loss scenarios, Behaviour of Steel Structures in Seismic Areas, STESSA 2009.
7. D. Dubina, F. Dinu , A. Stratan, Tower Centre International building in Bucharest Part II: Performance-based seismic evaluation and robustness, Steel Construction, Volume 3, Issue 1, pages 14–18, March 2010, Article first published online: 18 MAR 2010, DOI: 10.1002/stco.201010003.
8. F. Dinu, D. Dubina, A. Ciutina, Robustness performance of seismic resistant building frames under abnormal loads, Structures & Architecture, ICOSA 2010 - 1st International Conference on Structures & Architecture, July 21-23 July, 2010 in Guimaraes, Portugal.
9. Dubina, D., Stratan, A., Dinu, F., Dual high-strength steel eccentrically braced frames with removable links, Earthquake Engineering and Structural Dynamics 37 (15), pp. 1703-1720, 2008
10. Neagu, C., Dinu, F., Dubina, D., Seismic performance of steel plate shear walls structures, Pollack Periodica 6 (1), pp. 47-58, 2011.
11. Dubina, D., Bordea, S., Dinu, F., Experimental and numerical investigation of nonseismic reinforced concrete frames strengthened with concentric steel braces, ECCOMAS Thematic Conference - COMPDYN 2011: 3rd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering: An IACM Special Interest Conference, Programme, 2011.
12. Dinu, F., Neagu, C., Dubina, D., Evaluation of energy dissipation capacity of steel frames with steel shear walls, ECCOMAS Thematic Conference - COMPDYN 2011: 3rd International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering: An IACM Special Interest Conference, Programme, 2011.
13. D. Dubina, F. Dinu: Robustness based structural design: an integrated approach for multihazard risk mitigation, Applied Mech. and Materials Vol. 82 (2011) pp 770-777, Online at www.scientific.net, Trans Tech Public., CH, doi:10.4028/www.scientific.net/AMM.82.770 (CO).
14. D. Dubina, A. Stratan, F. Dinu, Re-centring capacity of dual-steel frames, Steel Construction, Volume 4, Issue 2, pages 73–84, June 2011, Article first published online: 17 JUN 2011, DOI: 10.1002/stco.201110011.
15. F. Dinu, D. Dubina, C. Neagu, C. Vulcu, D. Marcu, Experimental calibration of numerical models for short coupling beams of a multi-story frame structure, 15th World Conference on Earthquake Engineering, 24 - 28 september, 2012, Lisbon, Portugal
16. Dubina Dan, Dinu Florea, Experimental evaluation of dual frame structures with thin-walled, steel panels, Thin-walled structures, 78, 2014.

17. F. Dinu, Dubina Dan, Ioan Marginean, Improving the structural robustness of multi-story steel-frame buildings, Structure and Infrastructure Engineering, DOI: 10.1080/15732479.2014.927509, Volume 11, Issue 8, August 2015, pages 1028-1041.
18. Florea Dinu, Dan Dubina, Ioan Marginean, Calin Neagu, Ioan Petran, Structural Connections of Steel Building Frames under Extreme Loading, Advanced Materials Research, Volume 1111, DOI 10.4028/www.scientific.net/AMR.1111.223 ISSN: 1022-6680, 2015.
19. Florea Dinu, Dan Dubina, Cristian Vulcu, Calin Neagu, Design by qualification testing of reduced beam section welded connections, Advanced Materials Research, Volume 1111, DOI 10.4028/www.scientific.net/AMR.1111.229 ISSN:1022-6680, 2015.
20. Florea Dinu, Ioan Marginean, Dan Dubina, Ioan Petran, Experimental testing and numerical analysis of 3D steel frame system under column loss, Engineering Structures, Volume 113, 15 April 2016, Pages 59–70

**Collaborator to code drafting (in Romanian):**

1. Proiectarea structurilor rezistente la actiuni seismice: Partea 1: reguli generale, actiuni seismice si reguli pentru cladiri. Anexa nationala de aplicare a Eurocodului EN 1998 – 1: 2004
2. Proiectarea structurilor rezistente la actiuni seismice: Partea 1: reguli generale, actiuni seismice si reguli pentru cladiri. Anexa nationala de aplicare a Eurocodului EN 1998 – 1: 2004
3. Colaborare la P100/1. Cod de proiectare seismică a clădirilor. Vol.2. Comentarii și exemple de calcul
4. Colaborare la P100/3. Cod de evaluare și proiectare a lucrărilor de consolidare la clădiri existente vulnerabile seismic. Vol. 1 - Evaluare. Vol. 2 - Consolidare
5. Adoptare prin traducere a urmatoarelor standarde europene: EN 1993-1-3:2006, EN 1993-1-7: 2006, EN 1993-1-5: 2006, EN 1993-1-6: 2006, EN 1993-1-12: 2006
6. Calculul structural global al structurilor metalice in conformitate cu SR EN 1993-1-1 si SR EN 1998-1. Recomandari, comentarii si exemple de aplicare
7. Verificarea la stabilitate a elementelor structurale din otel în conformitate cu SR EN 1993-1-1. Recomandari de calcul, comentarii si exemple de aplicare

Timisoara, 01.04.2016