

Europass Curriculum Vitae



Personal information

Surname(s) / First name(s) DINU Florea

Address(es) Str. Dr. Louis Pasteur, Bl. B12, Sc. A, Ap. 19, Timișoara, Romania

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Nationality Romanian

Date of birth 26.07.1969

Gender Male

Occupational field

Academic

Work experience

Dates 2007 – present

Occupation or position held Associate Professor

Main activities and responsibilities Teaching and research: Thin-walled structures; Theory of elasticity and plasticity; Mechanics; Finite Element Method; Steel Structures; Structural Glass

Name and address of employer "Politehnica" University in Timisoara

Type of business or sector Academic

Dates 2005 – 2007

Occupation or position held Senior lecturer

Main activities and responsibilities Teaching and research: Structural mechanics, Stability of steel structures, Non-linear analysis of structures, safety of constructions under extreme loads

Name and address of employer "Politehnica" University in Timisoara

Type of business or sector Academic

Dates 2001 – present

Occupation or position held 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 |

Education and training

| | |
|--|---|
| 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 |
| 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 |
| Name and type of organization providing education and training | Technical University, Athens, Greece |
| 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 | Construction |
| 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 | Construction |
| 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, coordination skills and team worker.

Organisational skills and competences

1. Coordinator of several national research programs: Criterii de precalificare a îmbinărilor ductile ale cadrelor metalice necontravantuite, MEC – CNCSIS, Grant CNCSIS, 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.
2. Participation to large national and international research programs (COPERNICUS- RECOS, HSS-SERF, CEEX MATNANTECH, FP7 SERIE "DUAREM, RFCS DiSTEEL).
3. Member of Management Committee of COST C26 action "Urban Habitat Constructions under Catastrophic Events"
4. Member of Management Committee of COST C12 action "Improvement of buildings structural quality by new technologies"
5. 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.
6. Invited talks (Training School for Early Stage researchers, Cost C25&Cost C26, 2010; TUKSA, 2009)
7. Session chairman at international conferences (EUROSTEEL 2008, Nederland; SSCS 2010, Turkey; ICTWS 2011, Timisoara; Conference on Engineering Research University of Pécs, Pollack Mihály Faculty of Engineering, 2010, Pécs, Hungary)
8. 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 practice and experience in several fields: erection of constructions and design 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 as a result of initial training and daily activity. Use of computer codes built 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 (influence score 2.17)
- 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*, ICSA 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. Dinu Florea, Dubina Dan, Ioan Marginean, Improving the structural robustness of multi-story steel-frame buildings, *Structure and Infrastructure Engineering*, 2014.

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