



Europass Curriculum Vitae



Personal information

Surname(s) / First name(s)
Nationality
Date of birth
E-mail

Daniel-Viorel UNGUREANU
Romanian

Occupational field

Work experience

Dates
Occupation or position held
Main activities and responsibilities
Name and address of employer
Type of business or sector

Academic

2013 – present / 2007 – 2013 / 2005 – 2007

Professor, PhD, Director of ICER / Associate Professor / Senior Lecturer
PhD supervisor since 2012, civil engineering
Teaching and research: Steel Structures; Thin-walled cold-formed steel structures; Theory of elasticity and plasticity; Structural mechanics; Finite Element Method; Structural Glass; Sustainability of constructions
The Politehnica University of Timisoara, Civil Engineering Faculty, Department of Steel Structures and Structural Mechanics / Research Institute for Renewable Energy - ICER
Academic and research

Dates
Occupation or position held
Main activities and responsibilities
Name and address of employer
Type of business or sector

2014 – present / 2001 – 2014 / 1994 – 2001

Senior researcher 1 / Senior researcher 3 / Assistant researcher
Research on: stability of steel structures; thin-walled cold-formed steel structures; advanced analysis of steel structures; sustainability of constructions
Romanian Academy – Timisoara Branch; Laboratory of Steel Structures; Bd. Mihai Viteazul, No. 24, 300223, Timisoara
Research

Education and training

Dates
Title of qualification awarded
Principal subjects/occupational skills covered

01.08.2022 – 14.08.2022

International Welding Inspector (IWI) (RO/IWI-C/00377) / European Welding Inspector (EWI) (RO/EWI-C/00377)
Institutul Național de Cercetare-Dezvoltare în Sudură și Încercări de Materiale – ISIM Timișoara

Dates
Title of qualification awarded
Principal subjects/occupational skills covered

10.09.2018 – 23.01.2019

European Welding Engineer (EWE) (RO/EWE/01043) / International Welding Engineer (IWE) (RO/IWE/01043)
Institutul Național de Cercetare-Dezvoltare în Sudură și Încercări de Materiale – ISIM Timișoara

Dates
Title of qualification awarded
Principal subjects/occupational skills covered

2012

Habilitation Thesis
Civil Engineering

Name and type of organisation providing education and training

Politehnica University of Timisoara

Level in national or international classification	ISCED 6
Dates	1994-2003
Title of qualification awarded	PhD, distinction <i>CUM LAUDE</i>
Principal subjects/occupational skills covered	Civil Engineering, Lateral-torsional buckling of thin-walled cold-formed steel members
Name and type of organisation providing education and training	"Politehnica" University of Timisoara
Level in national or international classification	ISCED 6
Dates	2006
Title of qualification awarded	Senior Certificate
Principal subjects/occupational skills covered	Thermal and energetic rehabilitation of existing buildings
Name and type of organisation providing education and training	"Politehnica" University of Timisoara
Level in national or international classification	ISCED 6
Dates	1994-1995
Title of qualification awarded	Diploma
Title of qualification awarded	Master's degree in Civil Engineering
Principal subjects/occupational skills covered	Construction
Name and type of organisation providing education and training	"Politehnica" University of Timisoara, Civil Engineering Faculty
Level in national or international classification	ISCED 6
Dates	1989-1994
Title of qualification awarded	Diploma in Civil Engineering
Principal subjects/occupational skills covered	Construction / 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 5
Dates	1999
Title of qualification awarded	Excellent / Certificate of Completion
Principal subjects/occupational skills covered	Training in <i>MSC/NASTRAN & MSC/PATRAN, Finite Element Analysis</i>
Name and type of organisation providing education and training	MAGIC SYSTEMS S.A. Brasov, Romania, representing MacNeal-Schwendler Corp.
Dates	1999 (25.07 – 01.08)
Title of qualification awarded	Certificate of Completion
Principal subjects/occupational skills covered	Summer Academy 1999: <i>Advanced Studies Structural Engineering and CAE/CAAD</i>
Name and type of organisation providing education and training	Bauhaus University Weimar, Germany
Dates	1998 (10 weeks) / 1997 (8 weeks)
Title of qualification awarded	---

Principal subjects/occupational skills covered

Education in steel structures / TEMPUS S-JEP 11297

Name and type of organisation providing education and training

University of Manchester, UK

Dates 1996 (30.09-04.10)

Title of qualification awarded

Certificate of Completion

Principal subjects/occupational skills covered

“Coupled Instabilities in Metal Structures: Theoretical and Design Aspects“

Name and type of organisation providing education and training

International Centre for Mechanical Sciences – CISM, Udine, Italy

Personal skills and competences

Mother tongue(s)

Romanian

Other language(s)

Self-assessment

European level (*)

English

French

Spanish

German

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C2	C1	C1
B2	B2	B2	A2	B1
B1	B1	B1	A2	B1
A2	A2	A2	A1	A2

(*) Common European Framework of Reference for Languages

Organisational skills and competences

- Member of the Editorial Board of the Thin Walled Structures journal, Elsevier;
- Member of the Editorial Board of the *Steel Construction. Design and Research* journal, Ernst & Sohn, A Wiley Brand;
- Member of the Editorial Board of the Engineering Structures and Technologies, ISSN 2029-882X;
- Member of the Editorial Board of the *Buildings, MDPI Journal*;
- Member of the Editorial Board of the *[CEJ] Civil Engineering Journal*;
- Member of the Editorial Board of the *Building Design and Environment Journal*;
- Chairman of the Technical Committee TC14 (Sustainability & Eco-Efficiency of Steel Construction) of European Convention for Constructional Steelwork (ECCS);
- Technical Committee TC7 (Cold-formed thin-walled sheet steel in building) of European Convention for Constructional Steelwork (ECCS);
- Member of Management Committee of COST CA 20109 action: “Modular energy islands for sustainability and resilience”, 2021-2025;
- Member of Management Committee of COST CA 21103: “CIRCULAR B–Implementation of Circular Economy in the Built Environment”, 2022-2026;
- Chairman of Working Group WG1: “Circularity strategies and best practices” of COST CA 21103: “CIRCULAR B–Implementation of Circular Economy in the Built Environment”;
- Member of Management Committee of COST C25 action “Sustainability of Constructions - Integrated Approach to Life-time Structural Engineering”, 2006-2011;
- Vice-chairman of Working Group WG3: “Life-time Structural Engineering” of COST C25 action “Sustainability of Constructions - Integrated Approach to Life-time Structural Engineering”;
- Member of the National Council for Titles, Diplomas and Certificates (CNATDCU), Civil Engineering and Management Committee;
- Member of IALCCE (International Association for Life-Cycle Civil Engineering);
- Member of the Renewable Energy Committee of the Romanian Academy;
- Member of the Romanian Association of Welding;
- Member of APCMR (Romanian Convention for Constructional Steelwork);
- Member of the Structural Engineers Association from Romania (AICPS);
- Member of the International Association for Bridge and Structural Engineering (IABSE);
- Member of the National Technical Committee for Standardization ASRO/CT 343 Basis of design and Structural Eurocodes;
- Member of the Technical Committee for revision of Eurocode 3: Design of steel structures. Part

1-3: General rules. Supplementary rules for cold-formed members and sheeting - Evolution of the Structural Eurocodes;

Organization of several international and national conferences and symposiums, connected to area of interest:

- Chairmen of *The 4th International Conference "Coordinating Engineering for Sustainability and Resilience" CESARE 2024 & Midterm Conference of Circular_B "Implementation of Circular Economy in The Built Environment"*, Timișoara, România, 29-31 May 2024;
- *Organiser of the Mini-Symposia: MS 08 – Resilience and Sustainability of Steel based Hybrid Building Structures in the Life-Cycle Environment*, în cadrul *the Eighth International Symposium on Life-Cycle Civil Engineering (IALCCE 2023)*, Milan, Italy, July 2-6, 2023. Organizatori: Dan Dubina, Florea Dinu, Viorel Ungureanu
- Scientific Secretary of The International Colloquium on Stability and Ductility of Steel Structures – SDSS'2016, 30 May -01 June 2016, Timisoara, Romania;
- Scientific Secretary of The 6th International Conference on Thin Walled Structures, 05 – 07 September 2011, Timisoara, Romania;
- Chairman of the Workshop: Sustainability of Constructions. Integrated Approach to Life-time Structural Engineering. Cost Action C25, Timisoara, Romania, 23-24.10.2009;
- Scientific Secretary of The International Conference in Metal Structures: Steel – A New and Traditional Material for Building, Poiana Brasov, Romania, 20-22 September 2006;
- Scientific Secretary of The International Colloquium SDSS'99 – Stability and Ductility of Steel Structures, 9-11 September 1999, Timisoara Romania;

- Membru în comitetul științific al the 13th International Conference on Advances in Steel-Concrete Composite Structures (ASCCS 2024), Hong Kong, December 11-13, 2024;
- Membru în comitetul științific al the XVII-th Symposium on Stability of Structures planned on 16-20 September, 2024, in Zakopane, Poland;
- Membru în comitetul științific al the 11th INTERNATIONAL SYMPOSIUM ON STEEL BRIDGES 2024, Prague, Czech Republic;
- Membru în comitetul științific al The 10th International Conference on Steel and Aluminum Structures (ICSAS 2024), Rio de Janeiro, Brazil, 5-7 June 2024;
- Membru în comitetul științific al celei de-a XVIII-a Conferința Națională de Construcții Metalice: Construieste cu Steel, 15-17 aprilie 2024, Cluj-Napoca, România;
- Membru în comitetul științific al The Ninth International Conference on Thin-Walled Structures (ICTWS2023), Sydney, Australia, 29 November to 1 December 2023;
- Membru în comitetul științific al CES II - Circular Economy Series II: International Conference, Yeditepe University Management Application and Research Center (MARC), 18-19 November 2022, Istanbul, Turkey;
- Membru în comitetul științific al The 8th Conference of the Sustainable Solutions for Energy and Environment, EENVIRO 2022, Bucharest, 17-21 October;
- Membru în comitetul științific al 10th International Symposium on Steel Bridges *for a Green Planet*, 21-22 September 2022 Istanbul, Turkey;
- Membru în comitetul științific al The XVIth Symposium on Stability of Structures, September 19-23, 2022, Zakopane, Poland;
- Membru în comitetul științific al The International Colloquium on Stability and Ductility of Steel Structures – SDSS 2022, 14-16 September 2022, Aveiro, Portugal;
- Membru în comitetul științific al IABSE Symposium 2022 "Challenges for Existing and Oncoming Structures (CEOS)", Prague, Czech Republic, May 25–27, 2022;
- Membru în comitetul științific al The 3rd International Conference "Coordinating Engineering for Sustainability and Resilience" CESARE'22, 30 April-2 May 2022, Amman, Jordan;
- Membru în comitetul științific al celei de-a XVII-a Conferința Națională de Construcții Metalice, 7-8 aprilie 2022, Universitatea Tehnică de Construcții București;
- Member of the Scientific Committee of The 3rd International Conference on Planning, Architecture & Civil Engineering (ICPACE 2021), 9-11 September, 2021, Rajshahi, Bangladesh;
- Member of the Scientific Committee of the 17th National Conference of Steel Structures, 6-7 April 2022, Bucharest, Romania;
- Member of the Scientific Committee of the International Conference on Engineering Research and Practice for Steel Construction 2020 - ICSC 2020, 3 - 5 December 2020, Hong Kong;
- Member of the Scientific Committee of The 6th Conference for Solar Energy Conversion in Communities - CSE 2020, 22 -24 October 2020, Brasov, Romania
- Member of the Scientific Committee of The 7th Conference of the Sustainable Solutions for Energy and Environment (EENVIRO 2020), 21-23 October, Bucharest, Romania;

- Member of the Scientific Committee of The 8th International Conference on Coupled Instabilities in Metal Structures (CIMS 2020), Łódź, Poland, 13 - 15 July 2020;
- Member of the Scientific Committee of The Eighth International Symposium on Steel Structures, 24-26 October 2019 in Konya, Turkey;
- Member of the Scientific Committee of The International Colloquium on Stability and Ductility of Steel Structures - SDSS 2019, 11 - 13 September 2019, Prague, Czech Republic
- Member of the Scientific Committee of the 16th National Conference of Steel Structures, Timișoara, 13 – 14 iunie 2019;
- Member of the Scientific Committee of The Fourth International Conference on Recent Advances in Nonlinear Mechanics - RANM2019, 7-10 May 2019, Lodz, Poland;
- Member of the Scientific Committee of The 2nd International Conference on Planning, Architecture & Civil Engineering (ICPACE 2019), 07 -09 February, 2019, Rajshahi, Bangladesh (<http://www.ruet.ac.bd/icpace/index.html>);
- Member of the Scientific Committee of THE XV-th SYMPOSIUM ON STABILITY OF STRUCTURES, 17-21 September 2018, Zakopane, Poland;
- Member of the Scientific Committee of International Conference on Engineering Research and Practice for Steel Construction 2018 - ICSC 2018, 5 - 7 September 2018, Hong Kong;
- Member of the Scientific Committee of The 7th International Conference on Thin Walled Structures, Lisbon, Portugal, 24-27 July 2018;
- Member of the Scientific Committee of International Conference on Engineering Research and Practice for Steel Construction 2018 – ICSC 2018, 5 - 7 September 2018, Hong Kong;
- Member of the Scientific Committee of The XV-th Symposium on Stability of Structures, 17-21 September 2018, Zakopane, Poland;
- Member of the Scientific Committee of The 14th Arab Structural Engineering Conference (ASEC), Jordan, 12-15.04.2018;
- Member of the Scientific Committee of Sustainable Energy - CSE 2017, 19–21 October 2017, Brasov, Romania;
- Member of the Scientific Committee of The International Conference “Coordinating Engineering for Sustainability and Resilience” CESARE’17, Dead Sea, Amman, Jordan 03-08 May 2017;
- Member of the Scientific Committee of The 8th International Conference on Steel and Aluminium Structures (ICSAS 2016), Hong Kong, December 7 to 9, 2016
- Member of the Scientific Committee of The 8th International Symposium on Steel Bridges, September 14-16, 2015, Istanbul, Turkey;
- Member of the Scientific Committee of The Eighth International Conference on Advances in Steel Structures, 21-24 July 2015, Lisbon, Portugal, Lisbon, Portugal;
- Member of the Scientific Committee of The XIV-th Symposium On Stability Of Structures, 8-12 June 2015, Zakopane, Poland;
- Member of the Scientific Committee of The International Conference Civil Engineering for Sustainability and Resilience, CESARE’14, 24-27 April 2014, Amman, Jordan;
- Member of the Scientific Committee of The 6th International Conference on Coupled Instabilities in Metal Structures, 03-05 December 2012, Glasgow, UK;
- Member of the Scientific Committee of The International Conference: Sustainability of Constructions – Towards a better built environment, 03-05 February 2011, Innsbruck, Austria;
- Member of the Scientific Committee of The International Symposium "Steel Structures: Culture & Sustainability 2010", 21-23.09.2010, Istanbul, Turkey;
- Member of the Scientific Committee of The 12th National Conference of Steel Structures, Timisoara, 26-27 November 2010;
- Member of the Scientific Committee of The International Symposium Sustainability of Constructions. Integrated Approach to Life-time Structural Engineering, 11 May 2009, Napoli, Italia.

Technical skills and competences

Technical skills in the field of construction developed by contact with practice and experience in several fields: erection of constructions and design of steel structures.

Project supervisor.

Publications:

342 scientific articles: **47** in ISI journals; **15** other international journals; **43** national journals, **209** international conferences (52 ISI), **32** national conferences;

13 books; **12** chapters in books; **20** co-editor of books;

42 research grants: director 18 (9 international and 9 national) și 24 collaborator (2 international and 22 national).

Hirsch index ISI/WOS: 14

Hirsch index Scopus: 15

Web of Science ResearcherID: A-5144-2017
ORCID: 0000-0002-5826-9518
Scopus Author ID: 56284364400
UEFISCDI ID (UEF-ID): U-1700-029W-6238

Keynote Lecture in the Stability of Structures, The XVI-th Symposium, Łódź, Poland, 16-20 September 2024;

Keynote Lecture (Recent research developments on built-up cold-formed steel beams with corrugated webs). Stability of Structures, The XVI-th Symposium, Łódź, Poland, 06-07 June 2022; Lecturer: Webinar on Design of Cold-Formed Steel Structures. 10.06/22.06/01.07.2021, Brussels, Belgium, organised by European Convention for Constructional Steelwork (ECCS);

Keynote Lecture in the frame of the conference: „Smart and Sustainable Energy Consumption” – SASEC–RORS-300. Title of the presentation: Energy efficiency in buildings / Eficiența energetică în clădiri, 23.02.2021, Timisoara;

Keynote Lecture (Built-up cold-formed steel beams with corrugated web connected through modern welding technologies). *The Eighth International Symposium on Steel Structures*, organized by Turkish Chamber of Civil Engineers, 24th - 26th, October 2019, Konya, Turkey (<http://celik.imo.org.tr/keynote-speakers.html>);

Lecturer: ADVANCED PRACTICAL TRAINING ON COLD-FORMED STEEL STRUCTURES, 22 March & 26 April 2018, Brussels, Belgium, organised by European Convention for Constructional Steelwork (ECCS);

Lecturer: Training course on cold-formed steel structures. 7-8 December 2017, Brussels, Belgium, organised by European Convention for Constructional Steelwork (ECCS);

Keynote Lecture (Stability of cold-formed steel beams of corrugated webs. Experimental and numerical investigations). Stability of Structures, The XIV-th Symposium, Zakopane, Poland, 8-12 June 2015;

Keynote Lecture (Instability Mode Interaction: From Van Der Neut model to ECBL approach). The 6th International Conference on Coupled Instabilities in Metal Structures, Glasgow, Scotland, 3-5 December 2012;

Invited lecturer at AKKON Steel Structures System Inc., 28.11.2008, Cerkezkooy – Tekirdag, Turkey (Lecture: *Technical solutions end erection technology for light gauge building steel framing of cold-formed steel sheathing based envelops*. Authors: Viorel Ungureanu & Dan Dubina).

Invited paper: *Ultimate Capacity of Cold-Formed Pitched Roof Portal Frames*, at The 9th Constructional Steelwork Day – TUCSA, 27.10.2008, Istanbul, Turkey. Authors: Dan Dubina, Viorel Ungureanu, Aurel Stratan & Zsolt Nagy.

Invited paper: *Sustainable Design of Steel Framed Houses*, at The 9th Constructional Steelwork Day – TUCSA, 27.10.2008, Istanbul, Turkey. Authors: Dan Dubina, Viorel Ungureanu, Mihai Mutiu & Daniel Grecea.

Invited paper: *Steel structures & Sustainability*, at The 10th Constructional Steelwork Day – TUCSA, 05.11.2009, Istanbul, Turkey. Authors: Viorel Ungureanu, Adrian Ciutina, Daniel Grecea & Dan Dubina.

Two lectures at the *BEST Summer Course Home Alone – Green Edition: Sustainability of Built Environment under Effects of Climate Change*, 22.07-02.08.2010, Timisoara, <http://courses.ro/sc10/academics.html> (30 students from 20 countries):

Course C2. Sustainable development: Framework & Backgrounds (2h, Dan Dubina, Viorel Ungureanu, Daniel Grecea);

Course C4. Environmental Impact of Constructions: LCA and LCC (4h, Viorel Ungureanu, Adrian Ciutina, Daniel Grecea).

Reviewer in ISI journals:

Thin-Walled Structures (www.elsevier.com)

Engineering Structures (www.elsevier.com)

Journal of Constructional Steel Research (www.elsevier.com)

Composites Part B (www.elsevier.com)

Structures (www.elsevier.com)

Journal of Structural Engineering – ASCE (<http://ascelibrary.org/sto/>)

Steel and Composite Structures, *An International Journal*

(<http://technopress.kaist.ac.kr/?journal=scs&subpage=6>)

Advances in Engineering Software (www.elsevier.com)

Acta Mechanica et Automatica (<http://www.actawm.pb.edu.pl/>)

Member in 22 PhD Juries: Technical University of Cluj-Napoca (8), Technical University of Civil Engineering Bucharest (8), The „Politehnica” University of Timisoara (6)

Computer skills and competences

Good computer skills as a result of initial training and daily activity. Use of computer codes built for structural modelling and design (CAD / FEM), office activities and communications: SAP2000, ETABS, AXIS, ANSYS, ABAQUS, MATHCAD

Additional information

Second price of Structural Engineers Association from Romania (AICPS) for 2010: "Design of the steel structure of a 7-storey building in Constanta / Dan DUBINA, Viorel UNGUREANU, Florea DINU, Csaba MOLNAR

Anghel Saligny Price of ROMANIAN ACADEMY in 2012, for the book *Design of Cold-formed Steel Structures. Eurocode 3: Design of Steel Structures. Part 1-3 Design of cold-formed Steel Structures*, Authors: Dan Dubina, Viorel Ungureanu, Raffaele Landolfo, Ernst & Sohn, A Wiley Company, Berlin, ISBN: 978-3-433-02979-4.

Prof. Dr. Ing. Daniel-Viorel Ungureanu