

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Surname(s) / First name(s)	Turkalj / Goran
Address(es)	Vukovarska 58, HR-51000 Rijeka, Croatia
Telephone(s)	+385 51 651 499; mob. +385 91 451 48 96
Fax(es)	+385 51 651 490
E-mail(s), Web address(s)	goran.turkalj@riteh.hr ; goran.turkalj@uniri.hr ; http://www.riteh.uniri.hr
Nationality(-ies)	Croatian
Date of birth	May 5, 1965
Identification number from Records of Scientific Workers	198063

WORK EXPERIENCE

• Dates (from – to)	since 2016
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	<ul style="list-style-type: none"> - rector's counselor for science and STEM, University of Rijeka (since 2021) - member of Rector's Award Committee for student professional/scientific/artistic work, University of Rijeka (2021) - member of Science Council, University of Rijeka (2018-2022) - rector's assistant for science, University of Rijeka (2018-2021) - vice-rector of University of Rijeka Council (2016-2017) - full professor with tenure (since April 2012) - member of Committee for postgraduate study and science (since October 2022) - head of Department of engineering mechanics (2016-2017; 2019-2022) - head of Laboratory for structural strength testing (since October 2019) - head of <i>Computational mechanics</i> modulus, doctoral study (since October 2019) - head of Section for structural analysis (2016-2017) - head of Laboratory for structural fatigue strength measurement (2016-2019)
Main activities and responsibilities	scientific researching, lecturing, professional working
• Dates (from – to)	June 2017 – September 2018
Name and address of employer	University of Rijeka, Trg braće Mađuranića 10, HR-51000 Rijeka, Croatia
Type of business or sector	vice-rector
Occupation or position held	vice-rector for organization and infrastructure management
Main activities and responsibilities	university organization, university infrastructure management
• Dates (from – to)	October 2010 – September 2016
Name and address of employer	Faculty of Engineering, University of Rijeka, Rijeka, Croatia
Type of business or sector	management, science and education
Occupation or position held	<ul style="list-style-type: none"> - dean of Faculty of Engineering - member of University of Rijeka Senat - full professor with tenure (since April 2012) - head of Section for structural analysis - head of Laboratory for structural fatigue strength measurement

Main activities and responsibilities	managing
• Dates (from – to)	April 2007 – April 2012
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	- full professor - head of Chair for structural analysis - head of Laboratory for numerical structural analysis
Main activities and responsibilities	scientific researching, lecturing, professional working
• Dates (from – to)	December 2003 – April 2007
Name and address of employer	Faculty of Engineering, University of Rijeka, Vukovarska 58, HR-51000 Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	- associate professor - head of Chair for structural analysis - head of Laboratory for numerical structural analysis
Main activities and responsibilities	scientific researching, lecturing, professional working
• Dates (from – to)	September 2003 – March 2004
Name and address of employer	OVV-Održavanje vučnih vozila d.o.o., Zagreb, Croatia
Type of business or sector	railway vehicles maintenance
Occupation or position held	chief of Workshop Rijeka
Main activities and responsibilities	running the maintenance of electric locomotives and trains, diesel locomotives
• Dates (from – to)	June 2000 – December 2003
Name and address of employer	Faculty of Engineering, University of Rijeka, Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	- assistant professor - head of the Chair for Structural Analysis - head of the B.Sc. study of mechanical engineering
Main activities and responsibilities	scientific researching, lecturing, professional working
• Dates (from – to)	January 1993 – June 2000
Name and address of employer	Faculty of Engineering, University of Rijeka, Rijeka, Croatia
Type of business or sector	science and education
Occupation or position held	teaching assistant
Main activities and responsibilities	scientific researching, working on M.Sc. and D.Sc. theses, teaching, professional working
• Dates (from – to)	November 1990 – December 1992
Name and address of employer	Croatian Railways, Workshop for railway vehicles maintenance, Rijeka, Croatia
Type of business or sector	railway vehicles maintenance
Occupation or position held	- executive manager - maintenance engineer
Main activities and responsibilities	maintenance and repair of electrical locomotives and trains, and diesel locomotives
• Dates (from – to)	September 1990 – November 1990
Name and address of employer	TORPEDO – engine and tractor factory, Rijeka, Croatia
Type of business or sector	production of iron and aluminum castings
Occupation or position held	- designer in the foundry
Main activities and responsibilities	designing models for producing casting molds

EDUCATION

Date	1996 – 2000
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	D.Sc., structural engineering

Date	1992 – 1996
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	M.Sc., structural engineering

Date	1985 – 1990
Place of education	Rijeka
Name and type of organisation providing education	Faculty of Engineering, University of Rijeka
Title or qualification awarded	Univ. Dipl. Ing., mechanical engineering

Date	1980 – 1984
Place of education	Rijeka
Name and type of organisation providing education	Technical High School, Rijeka High School for Economics, Administration, Mathematics and Informatics, Rijeka
Title or qualification awarded	mechanical technician

TRAINING

Year	2014
Place of training	Sveti Martin na Muri, Croatia
Name and type of organisation providing training	Faculty of Mechanical Engineering in Slavonski Brod
Principal subjects/Occupational skills covered	<i>ME4CataLogue (Mechanical Engineering for Catalogue): Strategic Management Workshop</i>

Year	2012
Place of training	Harbin, China
Name and type of organisation providing training	Harbin Institute of Technology
Principal subjects/Occupational skills covered	structural mechanics

Year	2011
Place of training	Rijeka, Croatia
Name and type of organisation providing training	University of Rijeka, Embassy of the United States
Principal subjects/Occupational skills covered	Strategic Management Workshop

Year	2008
Place of training	Zadar, Croatia
Name and type of organisation providing training	University of Zadar
Principal subjects/Occupational skills covered	TEMPUS <i>Capacity Building for Research in Croatia</i> (CBRC): Seminar on Collecting and publishing information about science and scientific productivity in Croatia

Year	2008.
Place of training	Ulm, Germany
Name and type of organisation providing training	Zwick/Roell
Principal subjects/Occupational skills covered	experimental mechanics

Year	2007
Place of training	Zadar, Croatia
Name and type of organisation providing training	University of Zadar
Principal subjects/Occupational skills covered	TEMPUS <i>Capacity Building for Research in Croatia</i> (CBRC): Workshop on Research Strategy

Year	2005.
Place of training	Udine, Italy
Name and type of organisation providing training	International Centre for Mechanical Sciences CISM
Principal subjects/Occupational skills covered	mixed finite element technologies

Year	2004.
Place of training	Ulm, Germany
Name and type of organisation providing training	Zwick/Roell
Principal subjects/Occupational skills covered	experimental mechanics

Year	2001.
Place of training	Udine, Italy
Name and type of organisation providing training	International Centre for Mechanical Sciences CISM
Principal subjects/Occupational skills covered	structural stability - modern problems and unconventional solutions

Year	1998.
Place of training	Ljubljana, Slovenia
Name and type of organisation providing training	University of Ljubljana, Faculty of Mechanical Engineering
Principal subjects/Occupational skills covered	finite element method (The MacNeal-Schwendler Corporation: <i>MSC/DYTRAN</i> - <i>MSC/SuperForge</i>)

Year	1996
Place of training	Brno, Czech Republic
Name and type of organisation providing training	Technical University of Brno, Faculty of Mechanical Engineering
Principal subjects/Occupational skills covered	structural analysis

Year	1994
Place of training	Pula, Croatia
Name and type of organisation providing training	Summer School of Computational Mechanics
Principal subjects/Occupational skills covered	nonlinear solid mechanics

Year	1993.
Place of training	Ljubljana, Slovenia
Name and type of organisation providing training	Kmetijski institut
Principal subjects/Occupational skills covered	experimental mechanics (Hottinger Baldwin Messtechnik HBM: <i>Measuring equipments</i>)

Year	1993.
Place of training	Udine, Italija
Name and type of organisation providing training	International Centre for Mechanical Sciences CISM
Principal subjects/Occupational skills covered	engineering mechanics of fibre reinforced polymers and composite structures

Year	1991.
Place of training	Zagreb
Name and type of organisation providing training	Tvornica za remont željezničkih vozila "JANKO GREDELJ"
Principal subjects/Occupational skills covered	repair of railway vehicles

PERSONAL SKILLS AND COMPETENCIES

Mother tongue(s) Croatian

Other language(s)

Language	English
Speaking	Proficient user (B2)
Writing	Proficient user (B2)
Understanding (listening and reading)	Proficient user (C1)

SOCIAL SKILLS AND COMPETENCIES

- team spirit
- good ability to adapt to different job conditions, gained through the work experience

ORGANISATIONAL SKILLS AND COMPETENCIES

- organization and running the railway vehicles maintenance and repair
- organization of teaching activities under the Chair for Structural Analysis
- running the Laboratory for Numerical Structural Analysis
- running the B.Sc. study of mechanical engineering at the Faculty of Engineering, University of Rijeka

TECHNICAL SKILLS AND COMPETENCIES

- analyses in the field of structural mechanics, especially in the cases of an elastic-plastic response analysis of beam-type structures under large displacement regime, structural stability, creep analysis
- in-house developed computer programs for geometrically and materially nonlinear analysis of beam and frame structures, based on the finite element method
- finite element analyses by computer programs: MSC.Patran, MSC.Nastran, MASTAN2
- tensometric measurement using 20-channel digital amplifier HBM DMCplus and software Beam
- mechanical testing of materials on the testing system Zwick/Roell Z400 (400 kN)
- programming: Fortran 77/90
- other software: Microsoft Office, AutoCAD

DRIVING LICENCE(S)

Category B

ADDITIONAL INFORMATION

- Publications:
 - 2 books and 5 book chapters
 - 108 papers in scientific journals
 - 124 papers in proceedings of scientific conferences
 - 99 professional papers/studies
- Awards:
 - *Annual National Science Award for 2005* for scientific achievements in the field of engineering;
 - Decoration of the President of the Republic of Croatia: *Oluja Medal*, 1995.
 - Foundation of the University of Rijeka: *Award for the Academic Year 2008/2009 in the fields of engineering and natural science znanosti*;
 - *Memorial* as a sign of recognition and gratitude for the contribution to the development of the University of Rijeka, 2013.
 - Dean's Annual Award: 1989/90.
 - Dean's Annual Award: 1988/89.
- Member of national and university bodies:
 - Croatian Standards Institute, Technical Committee: HZN/TO 548/PO 3 Design Eurocodes; Eurocode 3: Design of steel structures, since 2024.
 - Ministry of Labor, Pension System, Family and Social Policy of the Republic of Croatia: *sector expert* in the field of *Basic Technical Sciences*, since 2021.
 - Ministry of Science and Technology of the Republic of Croatia: *Sectorial Council XVI. Fundamental Technical Sciences*, Croatian Qualifications Framework, 2017-2021.
 - National Council for Science of the Republic of Croatia: *Scientific Area Council for Engineering*, 2013-2017.
 - National Council for Science of the Republic of Croatia: *Scientific Field Committee for Engineering* – fields of mechanical engineering, naval architecture, traffic engineering and transportation, rocket and space techniques, 2005-2013.
 - University of Rijeka: *Science Council*, 2018-2022.
 - University of Rijeka: *University Council*, 2016-2017.
 - University of Rijeka: *Senate*, 2010-2016.
- Head of research projects:
 - *Finite element models for nonlinear analysis of thin-walled beam-type structure* (uniri-tehnic-18-107-1243), University of Rijeka, 2018-2023.
 - *Development of numerical models for stability analysis of beam-type structure deformation forms* (13.09.1.1.03), University of Rijeka, 2014-2017.
 - *Finite element models for stability analysis of beam-type structures* (069-0691736-1731), Ministry of Science, Education and Sports, Republic of Croatia, 2007-2013.
 - *Numerical stability analysis and optimization of thin-walled beam-type structures* (069-101), Ministry of Science and Technology, Republic of Croatia, 1998-2001.
- Member of project team:
 - *Estimation of limit load capacity of engineering structures* (IP-2019-04-8615), Croatian Science Foundation, 2019-2023.
 - *Numerical modeling of FG composite beam-type structures* (uniri-tehnic-18-139-5637), University of Rijeka, 2018-2023.
 - *Assessment of structural behaviour in limit state operating conditions* (HRZZ-6876), Croatian Science Foundation, 2014-2018.
 - *Material properties, creep behavior, fracture toughness and microstructure of metal alloys: experimental analysis and numerical simulations*, Croatian-Chinese Scientific and Technological Cooperation, 2014-2015.
 - *Influence of Heat Affected Zone of electron beam welded steel casting GX4CrNi13-4 on the fatigue strength*, Croatian-Austrian bilateral project, 2014-2015.
 - *Metal alloys behaviour at different environmental conditions: testing and numerical simulations*, Croatian-Chinese Scientific and Technological Cooperation, 2009-2011.

- *Numerical analysis of structural response for specific service conditions* (069-0691736-1737), Ministry of Science, Education and Sports, Republic of Croatia, 2007-2013.
- Tempus Joint European Project: *Capacity Building for Research in Croatia*, Grant No. JEP-40086-2005, European Office, University of Split, Croatia, University of Bristol, Bristol, UK; Directorate-General Education and Culture, European Commission, 2007-2009.
- *Numerical analysis of nonlinear problems in design and manufacturing* (0069-006), Ministry of Science and Technology, Republic of Croatia, 2002-2006.
- *Numerical optimization in design and manufacturing* (069-001), Ministry of Science and Technology, Republic of Croatia, 1998-2001.
- *Structural analysis of objects for optimal efficiency* (2-08-011), Ministry of Science and Technology, Republic of Croatia, 1993-1996.

□ Member of scientific organisations, editorial bodies of scientific journals and conferences:

- International Editorial Board, *International Journal of Structural Stability and Dynamics*, World Scientific, since 2023.
- Vicepresident of the *21st Symposium on Theory and Practice of Shipbuilding SORTA 2014*, Baška, Island of Krk, Croatia, October 2-4, 2014.
- Editorial Board, Editorial Advisory Board, *Engineering Review* journal, University of Rijeka, Faculty of Engineering & Faculty of Civil Engineering, since 2011.
- Deans' and Academic Directors' Honor Committee, DAAAM International Vienna, Vienna, Austria, since 2011.
- EUROMECH, 2008-2013.
- Editor, *Engineering Review* journal, University of Rijeka, Faculty of Engineering, 2010.
- University of Rijeka: *Scientific Work Council*, 2007-2010.
- Editorial Board of the *Twelfth International Conference on Civil, Structural and Environmental Engineering Computing*, Funchal, Madeira, Portugal, September 1-4, 2009.
- IUTAM General Assembly, since 2006.
- Structural Stability Research Council (SSRC), since 2004.
- Young Researchers' and Scientists' International Committee, DAAAM International Vienna, Vienna, Austria, 2001-2004.
- Croatian Society of Mechanics, since 1993.

□ Reviews – books, textbooks, manuals:

- Kravanja, S., Žula, T.: *Manual for work with the program for optimization of high-pressure steel penstocks with stiffener rings PIPEOPT-SR, version 1,0*, University of Maribor Press, Maribor, 2023.
- Žula, T., Kravanja, S.: *Manual for work with the program for optimization of the composite floor system with the plastic resistance of the beam from the steel profiles IPE COMBOPT-PIPE, version 1,0*, University of Maribor Press, Maribor, 2023.
- Alfirević, I.: *History of classical mechanics with reference to the history of related sciences* (in Croatian), University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb, 2021.
- Brnić, J.: *Fundamentals of optimization of mechanical structures* (in Croatian), University of Rijeka, Faculty of Engineering, Rijeka, 2013.
- Alfirević, I., Saucha, J., Tonković, Z., Kodvanj, J.: *Introduction to mechanics I: Statics of rigid bodies* (in Croatian), Golden marketing, Zagreb, 2010.
- Alfirević, I., Saucha, J., Tonković, Z., Kodvanj, J.: *Introduction to mechanics II: Applied statics* (in Croatian), Golden marketing, Zagreb, 2010.
- Brnić, J.: *Statics* (in Croatian), University of Rijeka, Faculty of Engineering, Rijeka, 2004.

□ Reviews – journals:

- *Composite Structures*, Ferreira, A. (Ed.), Elsevier
- *Thin-Walled Structures*, Silvestre, N. (Ed.), Elsevier. Computers & Structures, Bathe, K. J. & Topping, B. H. V. (Eds.), Elsevier Ltd.
- *Structures*, Gardner, L. (Ed.), Elsevier.

- *International Journal of Structural Stability and Dynamics*, Yang, Y. B., Wang, C. M. & Reddy, J. N. (Eds.), World Scientific Publishing.
 - *International Journal for Numerical Methods in Engineering*, Lewis, R. W. & Belytscko, T. (Eds.), John Wiley & Sons, Ltd.
 - *Communications in Numerical Methods in Engineering*, Lewis, R. W. & Carey G. F. (Eds.), John Wiley & Sons, Ltd.
 - *International Journal of Steel Structures*, Lee, E.-T., Gardner, L., Li, G., Roeder, C. (Eds.), Springer.
 - *Journal of Zhejiang University – SCIENCE A*, Wei Yang (Ed.), Zhejiang University Press & Springer-Verlag GmbH.
 - *Applied Mathematical Modelling*, Cross, M. (Ed.), Elsevier Ltd.
 - *Journal of Engineering Mechanics*, Willam, K. J. (Ed.), ASCE American Society of Civil Engineers.
 - *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, Chew, J. W. (Ed.), Sage Publications.
 - *Transactions of FAMENA*, Alfirević, I., Filetin, T., Sorić, J. & Terze, Z. (Eds.), University of Zagreb, Faculty of Mechanical Engineering and Naval Architecture, Zagreb.
 - *Steel and Composite Structures*, Choi, C. K., Lam, D. & Uy, B. (Eds.), Techno-Press, Yuseong, Daejeon, Korea.
 - *NED University Journal of Research – Structural Mechanics*, Rafi, M. M. (Ed.), NED University of Engineering and Technology, Karachi.
- Invited lectures:
- Lanc, D., Turkalj, G., Banić, D., Kvaternik Simonetti, S.: FG model for global buckling analysis of composite beams, 25th International Conference on *Composites of Structures ICCS25*, Faculty of Engineering, University of Porto, Porto, Portugal, 19-21 July 2022.
 - Lanc, D., Turkalj, G., Kvaternik Simonetti, S.: FG beam thermal buckling analysis, 7th International Conference on *Mechanics of Composites MECHCOMP7*, Book of Abstracts, Faculty of Engineering, University of Porto, Porto, Portugal, 1-3 September 2021.
 - Lanc, D., Turkalj, G., Brnić, J., Pešić, I.: *Buckling analysis of laminated composite box beams*, The Eighth International Conference on Physical and Numerical Simulation of Materials Processing ICPNS 2016, Seattle, Washington, USA, October 14-17, 2016.
 - Turkalj, G.: *Updated Lagrangian formulation for large displacement analysis of beam-type structures*, School of Materials Science and Technology, Harbin Institute of Technology, Harbin, China, January 18-22, 2016.
 - Brnić, J., Turkalj, G., Čanadija, M., Lanc, D.: *Behavior of high strength low-alloy (HSLA) steel at elevated temperatures*, The Fifth International Conference on Physical and Numerical Simulation of Materials Processing ICPNS'2007, Zhengzhou, China, October 23-27, 2007.
 - Lanc, D., Turkalj, G., Brnić, J.: *An algorithm for numerical creep buckling analysis of beam-type structures*, Pannonian Applied Mathematical Meetings PAMM, Balatonalmadi, Hungary, May 31-June 3, 2007.
 - Turkalj, G., Vizentin, G., Lanc, D.: *FE stability analysis of elastic frames accounting for connections flexibility*, The Eleventh Symposium of Mathematics and its Applications, Timoșoara, Romania, November 2-5, 2006.
 - Turkalj, G., Brnić, J., Lanc, D.: *Shear flexible beam finite element analysis using Eulerian approach*, Pannonian Applied Mathematical Meetings PAMM, Balatonalmadi, Hungary, June 1-4, 2006.
 - Turkalj, G., Lanc, D., Brnić, J.: *Buckling analysis of beam structures using Eulerian approach*, Pannonian Applied Mathematical Meetings PAMM, Balatonalmadi, Hungary, May 26-29, 2005.
 - Turkalj, G., Lanc, D., Brnić, J.: *An algorithm in computer stability analysis of elastic thin-walled beam structures*, Pannonian Applied Mathematical Meetings PAMM, Göd-Budapest, Hungary, September 16-19, 2004.
 - Brnić, J., Turkalj, G.: *New finite elements in shear stress analysis of Saint-Venant's torsional loaded beam structures*, The Fourth International Conference on Physical and

Numerical Simulation of Materials Processing ICPNS'2004, Shanghai, China, May 17-20, 2004.

- Brnić, J., Turkalj, G., Čanadija, M.: *Application of finite element structural optimization in naval architecture*, The 10th International Symposium of Mathematics and its Applications, "Politehnica" University of Timisoara, Timisoara, Romania, November 6-9, 2003.
- Turkalj, G., Brnić, J.: *Thin-walled beam element for analysis of large displacement problems*, Pannonian Applied Mathematical Meetings PAMM, Balatonalmadi, Hungary, May 13-16, 1999.
- Turkalj, G., Brnić, J.: *Computational non-linear analysis of structural stability*, Pannonian Applied Mathematical Meetings, Göd-Budapest, Hungary, January 21-24, 1999.
- Brnić, J., Turkalj, G., Čanadija, M.: *Optimal design procedure based on the viscoplastic material behaviour*, The Third International Conference on Physical and Numerical Simulation of Materials and Hot Working ICPNS '99, Peking, China, 1999.
- Brnić, J., Turkalj, G.: *Finite element formulation of flattening process as a plane-strain problem*, Pannonian Applied Mathematical Meetings, Balatonalmadi, Hungary, 1998.
- Brnić, J., Čanadija, M., Turkalj, G.: *Finite element modelling of creep phenomenon of different materials*, International Conference on Recent Advances in Metallurgical Processes (ICRAMP '97), Bangalore, India, 1997.
- Brnić, J., Turkalj, G.: *Structural optimization via plastic design criteria*, Pannonian Applied Mathematical Meetings, Göd-Budapest, Hungary, 1996.

Mentorship: 4 Ph.D., 2 M.Sc., 6 Mag.Eng./Univ.Dipl.Ing., 17 B.Sc.

Member of Karate club TAD-Rijeka: black belt 2nd DAN.

ANNEXES Publication list

SIGNATURE



Prof. Goran TURKALJ, D.Sc. – PUBLICATION LIST

1. M.Sc. thesis:

Turkalj, G.: *Numerical analysis of plane frames stability*, (in Croatian), University of Rijeka, Faculty of Engineering, Rijeka, 1996.

2. D.Sc. thesis:

Turkalj, G.: *Non-linear stability analysis of thin-walled beam-type structures*, (in Croatian), University of Rijeka, Faculty of Engineering, Rijeka, 2000.

3. Books:

1. Brnić, J., Turkalj, G.: *Strength of Materials II*, (in Croatian), Zigo, Rijeka, 2006.
2. Brnić, J., Turkalj, G.: *Strength of Materials I*, (in Croatian), University of Rijeka, Faculty of Engineering, Rijeka, 2004.

4. Book chapters:

1. Turkalj, G., Brnić, J., Lanc, D.: Elastic-plastic large displacement analysis of thin-walled beam type structures, in Bontempi, F. (ed.): *System-based Vision for Strategic and Creative Design*, Vol. 1, A.A. Balkema Publisher, Swets & Zeitlinger, Lisse, 2003.
2. Turkalj, G., Brnić, J., Lanc, D.: Non-linear formulation for elastic stability analysis of thin-walled beam-type structures, in Jármay, K. & Farkas, J. (eds.): *Metal Structures: Design, Fabrication, Economy*, Millpress, Rotterdam, 2003.
3. Turkalj, G., Brnić, J.: Nonlinear finite element stability analysis of elastic thin-walled framed structures, in Katalinic, B. (ed.): *DAAAM International Scientific Book 2002*, DAAAM International Vienna, Vienna, 2002.
4. Brnić, J., Čanadija, M., Turkalj, G.: Finite elastoplasticity in plane strain cold rolling problem, in Kuljanić, E. (ed.): *Advanced Manufacturing Systems and Technology*, CISM Courses and Lectures No. 437, Springer-Verlag, Wien–New York, 2002.
5. Brnić, J., Čanadija, M., Turkalj, G.: Comparison of measured and computed contact pressure distribution in cold sheet rolling process, in Kuljanić, E. (ed.): *Advanced Manufacturing Systems and Technology*, CISM Courses and Lectures No. 406, Springer-Verlag, Wien–New York, 2002.

5. Journal papers:

a) journals indexed in CC, SCI and/or SCI Exp

1. Banić, D., Turkalj, G., Lanc, D.: Stability analysis of shear deformable cross-ply laminated composite beam-type structures, *Composite Structures*, **303**, 2023, art. no. 116270.
2. Pešić, I., Turkalj, G.: Large displacement analysis of laminated beam-type structures, *Engineering Review*, **43** (2), 2023, doi.org/10.30765/er.2184.
3. Kvaternik Simonetti, S., Turkalj, G., Lanc, D.: Thermal buckling analysis of thin-walled closed section FG beam-type structures, *Thin-walled structures*, **181**, 2022, art. no. 110075.
4. Banić, D., Turkalj, G., Lanc, D., Kvaternik Simonetti, S.: Numerical model for geometrically nonlinear analysis of beams with composite cross-section, *Journal of Composites Science*, **6**, 377, 2022.

5. Kvaternik Simonetti, S., Turkalj, G., Lanc, D., Banić, D.: Bimetallic thin-walled box beam thermal buckling response, *Materials*, **15**, 7535, 2022.
6. Randić, M., Pavletić, D., Turkalj, G.: Multiparametric investigation of welding techniques on toe radius of high strength steel at low-temperature levels using 3D-scanning techniques, *Metals*, **9**, 1355, 2019.
7. Kvaternik, S., Filippi, M., Lanc, D., Turkalj, G., Carrera, E.: Comparison of classical and refined beam models applied on isotropic and FG thin-walled beams in nonlinear buckling response, *Composite Structures*, **229**, 2019, art. no. 111490.
8. Turkalj, G., Lanc, D., Banić, D., Brnić, J., Vo, T. P.: A shear-deformable beam model for stability analysis of orthotropic composite semi-rigid frames, *Composite Structures*, **189**, 2018, pp. 648-660.
9. Kvaternik, S., Turkalj, G., Lanc, D.: Analysis of flexure, torsion and buckling of thin-walled frames with a focus on the joint warping behaviour, *Transactions of FAMENA*, **41** (4), 2017, pp. 1-10.
10. Brnić, J., Krščanski, S., Lanc, D., Brčić, M., Turkalj, G., Čanadija, M., Niu, J.: Analysis of the mechanical behavior, creep resistance and uniaxial fatigue strength of martensitic steel X46Cr13, *Materials*, **10**, 2017, doi:10.3390/ma10040388.
11. Brnić, J., Turkalj, G., Krščanski, S., Vukelić, G., Čanadija, M.: Uniaxial properties versus temperature, creep and impact energy of an austenitic steel, *High Temperature Materials and Processes*, **36** (2), 2017, pp. 135-143.
12. Lanc, D., Turkalj, G., Vo, T. P., Brnić, J.: Nonlinear buckling behaviours of thin-walled functionally graded open section beams, *Composite Structures*, **152**, 2016, pp. 829-839.
13. Pešić, I., Lanc, D., Turkalj, G.: Non-linear global stability analysis of thin-walled laminated beam-type structures, *Computers & Structures*, **173**, 2016, pp. 19-30.
14. Banić, D., Turkalj, G., Brnić, J.: Finite element stress analysis of elastic beams under non-uniform torsion, *Transactions of FAMENA*, **40** (2), 2016, pp. 71-82.
15. Brnić, J., Turkalj, G., Čanadija, M., Lanc, D., Krščanski, S., Brčić, M., Li, Q., Niu, J.: Mechanical properties, short time creep and fatigue of an austenitic steel, *Materials*, **9**, 2016, doi:10.3390/ma9040298.
16. Brnić, J., Turkalj, G., Krščanski, S., Niu, J., Li, Q.: Changes in the Material Properties of Steel 1.4762 Depending on the Temperature, *High Temperature Materials and Processes*, **35** (8), 2016, pp. 761-767.
17. Turkalj, G., Lanc, D., Brnić, J., Pešić, I.: A beam formulation for large displacement analysis of composite frames with semi-rigid connections, *Composite Structures*, **134**, 2015, pp. 237-246.
18. Brnić, J., Turkalj, G., Čanadija, M., Krščanski, S., Brčić, M., Lanc, D.: Deformation behavior and material properties of austenitic heat – resistant steel X15CrNiSi25-20 subjected to high temperatures and creep, *Materials and Design*, **69**, 2015, pp. 219-229.
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7. Invited lectures:

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5. Turkalj, G., Vizentin, G., Lanc, D.: *FE stability analysis of elastic frames accounting for connections flexibility*, The Eleventh Symposium of Mathematics and its Applications, Timoșoara, Budapest, November 2-5, 2006.
6. Turkalj, G., Brnić, J., Lanc, D.: *Shear flexible beam finite element analysis using Eulerian approach*, Pannonian Applied Mathematical Meetings PAMM, Balatonalmadi, Hungary, June 1-4, 2006.
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8. Brnić, J., Turkalj, G.: *New finite elements in shear stress analysis of Saint-Venant's torsional loaded beam structures*, The Fourth International Conference on Physical and Numerical Simulation of Materials Processing ICPNS'2004, Shanghai, China, May 17-20, 2004.
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10. Brnić, J., Turkalj, G., Čanadija, M.: *Application of finite element structural optimization in naval architecture*, The 10th International Symposium of Mathematics and its Applications, "Politehnica" University of Timisoara, Timisoara, Romania, November 6-9, 2003.
11. Turkalj, G., Brnić, J.: *Computational non-linear analysis of structural stability*, Pannonian Applied Mathematical Meetings, Göd-Budapest, Hungary, January 21-24, 1999.
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16. Brnić, J., Turkalj, G.: *Structural optimization via plastic design criteria*, Pannonian Applied Mathematical Meetings, Göd-Budapest, Hungary, 1996.

8. Engineering studies:

1. Turkalj, G., Lanc, Banić, D., Kvaternik Simonetti, S.: *Tensile testing of steel specimens*, P.B.S. d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2023.
2. Turkalj, G., Lanc, D., Banić, D., Kvaternik Simonetti, S.: *Tensile and Charpy impact tests of steel materials: S355J2G3, 42CrMo4, X17CrNi16-2, X5CrNiMo-17-12-2 and X4CrNiMo16-5*, Dalstroj d.d, Split, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
3. Turkalj, G., Lanc, Banić, D., Kvaternik Simonetti, S.: *Tensile testing of CU-3 bronze material*, Propeler servis d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
4. Turkalj, G., Lanc, D., Banić, D., Kvaternik Simonetti, S.: *Testing of 34CrNiMo6 steel material*, VEBA d.o.o., Krk, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
5. Turkalj, G., Lanc: *Mechanical testing of Al-strips material for DA09*, Dalmont d.o.o., Kraljevica, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
6. Turkalj, G., Banić, D.: *Testing of mechanical properties of Steel Casting-Carbon and Carbon Manganese/WCB materials*, Brodoarmatura d.o.o., Matulji, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
7. Turkalj, G., Lanc, D., Banić, D.: *Testing of mechanical properties of steel materials: S355J2+AR, S355J2+N, 42CrMo4, 34CrNiMo6 and X4CrNiMo16-5-1*, Vulkan-Nova d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
8. Turkalj, G., Lanc, D.: *Tensile testing os seamless pipe material (dias. 76.1×12.5, 60.3×8.84 and 406.4×12.7)*, Shipyard "Viktor Lenac", University of Rijeka, Faculty of Engineering, Rijeka, 2022.

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10. Turkalj, G., Banić, D., Kvaternik Simonetti, S.: Testing of mechanical properties of steel sheet material for boat IBN BATTUTA, material S355J2H for steel pipe 355.6×22.2 mm and material ASTM A370 for steel pipe 609,6×30,96 mm, Shipyard "Viktor Lenac", University of Rijeka, Faculty of Engineering, Rijeka, 2022.
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12. Turkalj, G., Lanc, D.: Tensile testing of steel silo material, Holcim d.o.o., Koromačno, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
13. Turkalj, G., Lanc, D., Banić, D.: Testing of mechanical properties of steel materials: 1.4057+QT, 18CrNiMo7-6+FP and 42CrMo4+QT, JLM-Perković d.o.o., Matulji, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
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15. Turkalj, G., Lanc, D., Banić, D., Kvaternik Simonetti, S.: Testing of mechanical properties of steel material 41CrMo4+A, TEMA d.o.o., Pula, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
16. Turkalj, G., Lanc, D., Banić, D., Kvaternik Simonetti, S.: Testing of mechanical properties of steel materials: AISI 316L, P355 NL2, S355J2+N, S355J2H, 34CrNiMo6, 34CrNiMo6+QT, X4CrNiMo16-5-1 and X17CrNi16-2, Vulkan-Nova d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2022.
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21. Turkalj, G., Lanc, D., Banić, D., Kvaternik Simonetti, S.: Testing of mechanical properties of steel materials X5CrNiMo17-12-2 and X4CrNiMo16-5: tensile test and Charpy impact test, Dalstroj d.d, Split, University of Rijeka, Faculty of Engineering, Rijeka, 2021.
22. Turkalj, G., Lanc, D., Banić, D.: Testing of mechanical properties of S355J2+M material: tensile test and Charpy impact test, Vulkan-Nova d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2020.
23. Turkalj, G., Lanc, D.: Tensile testing of CU-3 bronze and INOX 316 materials, Propeler servis d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2021.
24. Turkalj, G., Lanc, D.: Testing of mechanical properties of steel profiles for DOK 11, Shipyard "Viktor Lenac", University of Rijeka, Faculty of Engineering, Rijeka, 2021.
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27. Turkalj, G., Banić, D.: Charpy impact testing at -55°C of welding connection WTP 11/21 (NAVIGATOR GUSTO), Shipyard "Viktor Lenac", University of Rijeka, Faculty of Engineering, Rijeka, 2021.
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35. Turkalj, G., Lanc, D.: Tensile testing of S355J2H material, Strojopromet-Zagreb d.o.o., University of Rijeka, Faculty of Engineering, Rijeka, 2021.
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40. Turkalj, G., Banić, D.: Charpy impact testing at -20°C of Q345B steel material for object MSC SANDRA, Shipyard "Viktor Lenac", University of Rijeka, Faculty of Engineering, Rijeka, 2020.
41. Turkalj, G., Brčić, M.: Tensile testing of materials composite materials, University of Rijeka, Faculty of Maritime Studies, Faculty of Engineering, Rijeka, 2020.
42. Turkalj, G., Banić, D.: Re-certification of steel material P235GHTC1, LMB Kotlovski inženjering, Zagreb, University of Rijeka, Faculty of Engineering, Rijeka, 2020.
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55. Turkalj, G., Lanc, D.: Experimental investigation of mechanical properties of material S355J2+AR of steel profiles L60×60×8, Vulkan-Nova d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2020.
56. Turkalj, G., Lanc, D., Banić, D., Kvaternik, S.: Re-certification of S355J2H material of stern tube and INOX AISI 316L material of propeller shaft and rudder stock for building no. 056, Strojbravarski obrt "Floris", Punat, University of Rijeka, Faculty of Engineering, Rijeka, 2020.
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65. Turkalj, G., Lanc, D., Brčić, M.: Testing of mechanical properties of structural steel S355J2+N: tensile test and Charpy impact test, Vulkan-Nova d.o.o., Rijeka, University of Rijeka, Faculty of Engineering, Rijeka, 2020.
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