

PERSONAL INFORMATION




Igor Vušanović

 Džodrža Vašingtona 66, 81000 Podgorica (Montenegro)

 38267224404

 igorvus@ucg.ac.me

 <https://www.ucg.ac.me/radnik/140263-vusanovic-igor>

 Skype igor.vusanovic

PERSONAL STATEMENT

Full professor at the Faculty of Mechanical engineering at the University of Montenegro

WORK EXPERIENCE

16/03/2016–Present

Dean of faculty

University of Montenegro - Faculty of Mechanical Engineering, Podgorica (Montenegro)

27/06/2013–Present

Full professor

University of Montenegro - Faculty of Mechanical Engineering, Podgorica (Montenegro)

01/04/2008–27/06/2013

Associate professor

University of Montenegro - Faculty of Mechanical Engineering, Podgorica (Montenegro)

27/12/2002–01/04/2008

Assistant professor

Univerzitet Crne Gore - Mašinski fakultet, Podgorica (Montenegro)

12/12/1996–27/12/2002

Assistant

University of Montenegro - Faculty of Mechanical Engineering, Podgorica (Montenegro)

01/06/1992–12/12/1996

Early years teaching assistant

University of Montenegro - Faculty of Mechanical Engineering, Podgorica (Montenegro)

EDUCATION AND TRAINING

05/04/1996–12/03/2002

PhD

University of Montenegro - Faculty of Mechanical Engineering, Podgorica (Montenegro)

15/06/1992–05/04/1996

Master of Science

University of Montenegro - Faculty of Mechanical Engineering, Podgorica (Montenegro)

01/10/1987–15/05/1992

Mechanical engineer

University of Belgrade - Faculty of Mechanical Engineering, Belgrade (Serbia)

PERSONAL SKILLS

Mother tongue(s)

Montenegrin, Serbian

Foreign language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Russian	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
 Common European Framework of Reference for Languages

Organisational / managerial skills Dean of Faculty since March 2016

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem-solving
Proficient user	Proficient user	Proficient user	Proficient user	Independent user

Digital skills - Self-assessment grid

ADDITIONAL INFORMATION

Biography

I was born on May 13th 1968 in Titograd, Yugoslavia. I graduated in elementary school “Maksim Gorki” 1982, then gymnasium Slobodan Skerovic 1986. I was enrolled at Faculty of Mechanical Engineering at University of Montenegro in fall 1987. After two successful years of studying I continued education at Faculty of Mechanical engineering of the University of Belgrade, where I graduated 1992 as a best students of generation.

I finish my master study with final work entitled as: **“Analysis of ice making and melting processes, using modify enthalpy method in energy accumulators”** 1996 at the University of Montenegro. My PhD study I finished in March 2002 with work entitled as: **“Analysis of phase change phenomena in multicomponent systems with aspects of technical applications”** at the University of Montenegro as well.

In the period of 2004 – 2005 I was a team leader of five international scientific projects: **“Modeling of phase change in Al alloys”** (2004, 2005), **“Modeling of macro and micro segregation of ternary Al alloys obtained by DC casting and continuous casting of strips”** (2006, 2007), **“Multiscale modeling of continuous casting of steel”** (2012, 2013) and **“Modeling of industrial processes of solidification under the field of electromagnetic field”** (2013, 2015) which are all realized in collaboration with Laboratory of multiphase processes of the University of Nova Gorica.

During the 2004 and 2005 I worked on **“Strategy of energy efficiency with action plan 2005 – 2006”** gather with Prof. I. Vujosevic from Faculty of electrical engineering, which was adopted as official Government document in spring of 2005. I was a member of council for implementation of EE Strategy for Montenegro, which was established as an governmental body under the Ministry of economy of Government of Montenegro.

In the period of 2006 – 2007 I was a visiting scholar at the University of Birmingham (UK), FAST Laboratory of University of **Pierre et Marie Curie** in Paris, and **Purdue University (USA)** in the program of specialization of people of University of Montenegro.

I was a member of Council of Agency of Environmental Protection which has an authority for monitoring and preservation of environment. I’m an active member of Engineering Chamber of Montenegro since 2009.

During the 2010 I was working as a member of a team in capital project of Montenegrin Academy of Science and Arts (CANU) entitled as: **“Montenegro in XXI century in the era of competitiveness”** in the subproject **ENERGY**.

During the 2012 under the bilateral collaboration between Montenegro and China I collaborated with HOHAI University, NANJING, China I headed a project **“Fast meshless simulation of heat transfer in large-scale thin-walled structures”**

In September 2012 I was a one of the organizers of scientific symposium called **ICCES MM ’12** which gathered top world scientists in the field of meshless numerical methods organized under the cover of University of Montenegro, Ministry of Science of GoM and CONIC center of excellence from Ljubljana, Slovenia.

Since 2013 I was appointed as a President of assembly of mechanical engineering chamber in Montenegro.

In the period of 2012 – 2015 I worked as a member of Committee for energy licenses in the Ministry of Economy of GoM.

Since March 2016 I'm elected DEAN of Faculty of Mechanical engineering of UoM, and member of Senat of the University of Montenegro.

I speak, write and read English fluently, and I'm using Russian language too.

I'm married and father of 3 daughters.

Paper published in international review journals

1. E. Tombarević, I. Vušanović, "Numerical Analysis of Unsteady Heat Transfer in U-tube Geothermal Heat Exchanger", *ANNALS of Faculty Engineering Hudenora – International Journal of Engineering*, Vol. 16(2), (2018) pp. 141-144. (ISSN 1584-2665)
2. I. Vušanović, V. R. Voller, "Best practice for measuring grid convergence in numerical models of alloy solidification", *International Journal of Numerical Methods for Heat and Fluid Flow*, Vol. 26 No. 2, (2016) pp. 1-14
3. I. Vušanović, V. R. Voller, "Simple metrics for verification and validation of macrosegregation model predictions", *IOP Conference Series: Materials Science and Engineering* **117** (2016) 012062.
4. I. Vušanović, "Transient permeability in macrosegregation of static casting in binary alloys: Use of CDF statistical model for analysis", *IOP Conference Series: Materials Science and Engineering* **84** (2015) 012008.
5. V. R. Voller, I. Vušanović "Frequency Analysis of Macrosegregation Measurements and Simulations", *International Journal of Heat and Mass Transfer* **79** (2014) 468–471.
6. I. Vušanović, V. R. Voller, "Understanding channel segregates in numerical models of alloy solidification: A case of converge first and ask questions later", *Materials Science Forum*, Vols. 790-791, pp. 73-78, (2014), Trans Tech Publications, Switzerland (doi:10.4028/www.scientific.net/MSF.790-791.732013).
7. E. Tombarević, V.R. Voller, I. Vušanović, "Detailed CVFEM Algorithm for Three Dimensional Advection-diffusion Problems", (2013), *Computer Modeling in Engineering and Science CMES*, Vol. 96, no.1, pp. 1 – 29.
8. B. Šarler, R. Vertnik, A.Z. Lorbiecka, I. Vušanović, B. Senčič. Application of continuous casting simulation at Štore Steel, II. *BHM Berg Huetttenmaennische Monatshefte*, (2013), str. 1-9, doi: 10.1007/s0050101301477.
9. B. Šarler, R. Vertnik, A. Z. Lorbiecka, I. Vušanović, B. Senčič, "A multiscale slice model for continuous casting of steel", *IOP Conference Series: Materials Science and Engineering* **33** (2012) 012021.
10. J. D. Jovanović, E. M. Tombarević, I. C. Vušanović, "Control volume finite element method for modeling of spur gear frictional heat", (2013), *Technics Technologies Education Management – TTEM*, Vol. 8, No 2. 5/6.
11. I. Vušanović, M. J. M. Krane, "Macrosegregation in horizontal direct chill casting of ter-nary Al alloys: Investigation of solid motion", *IOP Conference Series: Materials Science and Engineering* **27** (2011) 012069.
12. I. Vušanović, R. Vertnik, B. Šarler, "A simple slice model for prediction of macrosegregation in continuously cast billets", *IOP Conference Series: Materials Science and Engineering* **27** (2011) 012056.
13. E. Tombarević, I. Vušanović, "Modeling of ice-water phase change in horizontal annulus using modified enthalpy method", (2011), *Advances in Applied Mathematics and Mechanics*, Vol. 3, No 3, pp. 354 – 369.
14. I. Vušanović, "Macrosegregation of ternary Al – 4.5Cu – 1.0Mg alloy in horizontal direct chill casting: implementation of non-equilibrium microsegregation model", (2009), *International Journal of Cast Metal Research*, Vol. 22, No 1 – 4, pp. 314 – 317.
15. M. J. M. Krane, I. Vušanović "Macrosegregation in horizontal direct chill casting of aluminum slabs", (2009), *Materials Science & Technology*, Vol. 25, No. 1, pp. 102 – 107.
16. I. Vušanović, B. Šarler, M.J.M. Krane, "Microsegregation during the solidification of an Al–Mg–Si alloy in the presence of back diffusion and macrosegregation", (2005), *Materials Science Engineering (A)*, Vol. 413 – 414, pp. 217 – 222.
17. A. Bergant, U. Karadžić, J. Vitkovsky, I. Vušanović, A. R. Simpson, "A Discrete Gas-Cavity Model

that Considers the Frictional Effects of Unsteady Pipe Flow", (2005), *Strojniški vestnik – Journal of Mechanical Engineering*, Vol. 51(11), pp. 692 – 710.

18. I. Vušanović, M. J. M. Krane, "Microsegregation during solidification of Al-Cu-Mg alloys with varying composition", (2002), *International Communications in Heat and Mass Transfer*, Vol. 29, N° 1, (2002), pp. 1037-1046.

19. I. Vušanović, D. Voronjec, M.J.M. Krane, "**Microsegregation phenomena in Al-Cu-Mg alloy with considering of diffusion phenomena in primary phase**" *Facta Universitatis*, Vol. 1, N° 8, (2001), pp. 965 - 980.

20. V. Asanovic, B. Perovic, Z. Markovic, I. Vušanović, A. Kostov, "The influence of heat treatment on shape memory effect, *Materials Science Forum*, Vol. 352. (2000) pp. 165-170.

21. V. Asanović, B. Perović, Z. Marković-Leka, A. Kostov, I. Vušanović, "Thermoelastic Martensitic Transformation and Shape Memory Effect in Cu-Zn-Al Alloys," *Acta periodica technologica*, Vol. 31, (2000), Issue B, pp. 515-523.

Papers published in the proceedings or international conferences (in English)

1. J. Coleman, I. Vušanović, and M. J. M. Krane, "Characterization of the 3D Flow Field and Macroseggregation in Horizontal Direct Chill Cast Slabs", *5th International Conference on Advances in Solidification Processes – ICASP5*, Salzburg, Austria, June 2019.
2. M. Đekić, E. Tombarević and I. Vušanović, "Long term performance of building with vertical ground coupled heat pump system, *In P. Gvero (Ed.) Book of Abstracts of the 14th International Conference on Accomplishments in Mechanical and Industrial Engineering DEMI, May 24 – 25th, 2019, Banja Luka, Bosnia and Herzegovina.*
3. I. Vušanović, VR Voller, "Numerical Modeling of Solid Movement in Phase Change Processes", *ICCES: International Conference on Computational & Experimental Engineering and Sciences, March 25 – 28th, 2019, Tokyo, Japan.*
4. E. Tombarević, I. Vušanović "Experimental validation of a quasy-3D CVFEM model of borehole heat exchangers", *Fourth International Conference on Computational Methods for Thermal Problems, THERMACOMP 2016, July 6-8, 2016, Georgia Tech, Atlanta, USA, N. Massarotti, P. Nithiarasu and Y. Joshi (Eds.)*
5. I. Vušanović, "Transient permeability in macroseggregation of static casting in binary al-loys: Use of CDF statistical model for analysis ", *Modeling of Casting, Welding and Advanced Solidification Processes (MCWASP XV 2015) Awaji Island, Japan, June 2015.*
6. I. Vušanović, V. R. Voller, "Simple metrics for verification and validation of macroseggregation model predictions", *4th International Conference on Advances in Solidification Processes*, Beaumont Estates, Old Windsor, UK, 2014.
7. I. Vušanović, V. R. Voller, "Effect of domain size on grid convergence in numerical models of alloy solidification", *Third International Conference on Computational Methods for Thermal Problems, THERMACOMP 2014, June2-4, 2014, Lake Bled, Slovenia, (N. Massarotti, P.Nithiarasu and B. Šarler (Eds.)*
8. E. Tombarević, I. Vušanović, "Numerical Model of Heat flow in a Geothermal borehole heat exchanger ", *Third International Conference on Computational Methods for Thermal Problems, THERMACOMP 2014, June2-4, 2014, Lake Bled, Slovenia, (N. Massarotti, P.Nithiarasu and B. Šarler (Eds.)* _
9. B. Šarler, A. Z. Lorbiecka, U. Hanoglu, R. Vertnik, I. Vušanović, "A meshless slice model for continuous casting and hot rolling of steel. " V: LIU, Gui-Rong (ur.), LIU, Z. S. (ur.). Proceedings of the 5th Asia Pacific Congress on Computational Mechanics (APCOM2013) and 4th International Symposium on Computational Mechanics (ISCM2013), 11th -14th December 2013, Singapore.
10. I. Vušanović, V. R. Voller, "Understanding channel segregates in numerical models of alloy solidification: A case of converge first and ask questions later ", *The 6th International Conference on Solidification and Gravity*, Miskolc Lillafured, Hungary, 2 – 6th September 2013.
11. B. Šarler, R. Vertnik, A. Z. Lorbiecka, U. Hanoglu, I. Vušanović, " An Extended Heat and Mass Transfer Slice Model for Continuous Casting of Steel", *ECCOMAS Special Interest Conference Numerical Heat Transfer* , Gliwice-Wroclaw, Poland , 4-6 September 2012. Eds.: A. Nowak, R.A. Bialecki
12. E. Tombarević, I. Vušanović, "Control Volume Finite Element Method for two and three dimensional advection-diffusion problems", *ICCES Special Symposium on Meshless & Other Novel Computational Methods*, Budva, Montenegro, September 2012.
13. B. Šarler, R. Vertnik, A. Z. Lorbiecka, I. Vušanović, B. Senčič, "A multiscale slice model for

continuous casting of steel“, *Modeling of Casting, Welding and Advanced Solidification Processes (MCWASP XIII 2012)*, Schladming, Austria, June 2012

14. I. Vušanović, R. Vertnik, B. Šarler, “A simple slice model for prediction of macrosegregation in continuously cast billets: influence of different solid diffusion models“, *International symposium on liquid metal processing and casting, LMPC*, Nancy, France, September, 2011
15. I. Vušanović, R. Vertnik, B. Šarler, “A simple slice model for prediction of macrosegregation in continuously cast billets“, *3rd International Conference on Advances in Solidification Processes*, Rolduc Abbey/Aachen, Germany, June 2011
16. I. Vušanović, M. J. M. Krane, “Macrosegregation in horizontal direct chill casting of ternary Al alloys: Investigation of solid motion“, *3rd International Conference on Advances in Solidification Processes*, Rolduc Abbey/Aachen, Germany, June 2011
17. E. Tombarevič, I. Vušanović, “3D Numerical model of the borehole heat exchanger“, *Slovenian-Italian Conference on Materials and Technologies for Sustainable Growth*, University of Nova Gorica, Ajdovščina, Slovenia, May 2011
18. I. Vušanović, “Energy efficiency in building sector: solutions for heating and air conditioning in Montenegro“, *Third International Conference GNP 2010*, Žabljak, Montenegro, 2010.
19. E. Tombarevič, I. Vušanović, “Modelling of ice melting in horizontal annulus using enthalpy method“, *First International Conference on Computational Methods for Thermal Problems*, ThermaComp 2009, Naples, Italy, 2009.
20. E. Tombarevič, I. Vušanović, “Influence of inner pipe wall temperature on freezing of water in a horizontal cylindrical annulus“, *EUROTHERM Nr. 84 Thermodynamics of phase change*, Namur, Belgium, 2009.
21. I. Vušanović, “Macrosegregation of ternary Al – 4.5wt%Cu – 1.0wt% Mg alloy in horizontal direct chill casting – implementation of non-equilibrium microsegregation model“ *Proceedings of the Second International Conference on Advances in Solidification Processing*, Graz/Seggau, Austria, June 2008.
22. M. Šekularac, I. Vušanović, “Mathematical modeling of HVAC instalations“, *Klima Forum 2007*, Godovič, Slovenia, September 2007
23. I. Vušanović, I. Vujošević, “Energy efficiency strategy in Montenegro – implementation and challenges“, *Klima Forum 2007*, Godovič, Slovenia, September 2007.
24. I. Vušanović, B. Šarler, “Modeling of micro and macro segregation in DC casting of ternary Al based alloys“, *EUROMAT 2007*, Numberg, Germany, September 2007.
25. I. Vušanović, M. J. M. Krane, “Macrosegregation in horizontal direct chill casting (HDC) of aluminium binary alloys billets- influence of casting parameters,“ in *Solidification Processing 07*, H. Jones et al. (eds.), pp 428-432 (2007).
26. I. Vušanović, M.J.M. Krane, “Macrosegregation In Horizontal Direct Chill Casting (HDC) Of Aluminum Alloy Billets – Influence Of Casting Parameters“, *Proceedings of the 5th Decennial International Conference on Solidification Processing*, Sheffield, UK, July 2007.
27. U. Karadžić, A. Bergant, I. Vušanović, “Influence of unsteady friction on transients in hydraulic pipeline systems“, *12th Symposium on thermal science*, Sokobanja, Serbia, October 2005.
28. N. Kažić, I. Vušanović, “Exergy and HVAC“, *Klima forum 2006*, Godovič, Slovenia, September 2006.
29. Šarler, B., Kovačević, I., Vertnik, R., Hartman, S., Vušanović, I., Založnik, M., Šafhalter, R., Slaček, E., Dragojevič, V., Jelen, M., Strnad, V., Robič, A. : Integrated numerical simulation approach in IMPOL aluminium industry casthouse, *International Conference on Aluminium in conjunction with the 6th World Trade Fair*, Essen, Germany, September, 2006.
30. I. Vušanović, B. Šarler, M.J.M. Krane, “Microsegregation during the solidification of an Al–Mg–Si alloy in the presence of back diffusion and macrosegregation“, *International Conference on Advances in Solidification Processes*, Stockholm, Sweden, 2005.
31. I. Vušanović, M.J.M. Krane, “Mathematical model for microsegregation of Al rich Al-Cu-Mg alloys with considering of diffusion in primary phase“, *II International Symposium LIGHT METALS AND COMPOSITE MATERIALS*, Belgrade, Serbia & Montenegro, 2004.
32. I. Vušanović, M.J.M. Krane, “Numerical and Experimental study of Macrosegregation During the Casting of Al-Cu-Mg Alloys“, *EUROTHERM 69 Heat and Mass Transfer in Solid – Liquid Phase Change Processes*, Ljubljana, Slovenia, 2003.
33. V.D. Asanovic, I. Vušanović, Z.B. Markovic, A. Kostov, B. Bosnjak, B. Radulovic, “The influence of the heat treatment on martensitic transformation and properties of Cu-Zn-Al shape memory alloys“,

3rd Macedonian Conference of Metallurgy, Ohrid, 2000.

34. V.D. Asanovic, Z.B. Markovic, I. Vušanović, B. T. Bosnjak, B. Radulovic, A. Kostov, "Isothermal decomposition of b₁ phase in Cu-Zn-Al shape memory alloy", 2nd International Conference on "Chemical Sciences for Sustainable Development", Greece, 2000.

35. V.D. Asanovic, B. Perovic, Z. Markovic, A. Kostov, I. Vušanović, "Thermoelastic martensitic transformation and shape memory effect in Cu-Zn-Al alloys", YUCFPCE (Yugoslav Congress of food, pharmaceutical and Chemical engineering), Novi Sad, 1999.

36. I. Vušanović, "Numerical modeling of phase change in ice-water system by using modify enthalpy method", 10th Symposium YU - TERM '97, Zlatibor, 1997.

37. I. Vušanović, N. Kažić, "One numerical approach to the process in the ice storage device", 12th International Congress of Chemical and Process Engineering - CHISA '96, Prague, 1996.

38. I. Vušanović, V. Stevanovic, M. Studovic, "Transferring of waves in evaporator channel with disturbances of intake fluid flow", 24th Congress KGH, Belgrade, 1993.

39. I. Vušanović, V. Stevanovic, M. Studovic, "Mathematical model of forced and natural circulation – Modular approach", 23rd Congress KGH, Belgrade, 1992.

International & National Scientific Projects

1. I. Vušanović, V. R. Voller, M. Valant, E. Tombarević, "Numeričko i eksperimentalno istraživanje mogućnosti korišćenja geotermalne energije za potrebe rada geotermalnih toplotnih pumpi", Ministarstvo nauke Crne Gore, 2012 – 2015.

2. I. Vušanović, B. Šarler, "Modelling of industrial solidification processes under influence of electromagnetic fields", Financed and supported by Ministry of Science of Montenegro and Ministry of Science, Education and sport of Slovenia, BI – SCG/2014 – 2015.

3. V. Novaković, M. Vukčević, I. Vušanović, "HERD QIMSEE – Higher Education Research & Development – Quality Improvement in Science, Engineering and Education, Financed by Norwegian Ministry of foreign affairs with NTNU University, Trondheim, 2014 – 2016.

4. I. Vušanović, W. Chen, "Implementation of fast meshless simulations methods on solid mechanics and heat transfer problems in large scale structures", Financed and supported by Ministry of Science of Montenegro and Ministry of Science of China, in the frame of Montenegrin - Chinese Science & Technology cooperation BI – CHN/2014 – 2016.

5. I. Vušanović, B. Šarler, "Advanced modeling of continuous casting of steel", Financed and supported by Ministry of Science of Montenegro and Ministry of Science, Education and sport of Slovenia, BI – SCG/2012 – 2013.

6. I. Vušanović, B. Šarler, "Multiscale modeling of continuous casting of steel", Financed and supported by Ministry of Science of Montenegro and Ministry of Science, Education and sport of Slovenia, BI – SCG/2010 – 2011.

7. I. Vušanović, B. Šarler, "Modeling of micro and macrosegregation of ternary aluminium alloys obtained through DC casting and twinroll casting", Financed and supported by Ministry of Science of Montenegro and Ministry of Science, Education and sport of Slovenia, BI – SCG/06-07.

8. I. Vušanović, B. Šarler, "Modeling of phase change phenomena in Al alloys", Financed and supported by Ministry of Science of Montenegro and Ministry of Science, Education and sport of Slovenia, BI – SCG/04-05.

9. D. Gobin, B. Šarler, I. Vušanović, "Advances in simulation capabilities for solidification systems", Programme ECO-NET 2005.

10. I. Vušanović, "Development of ternary microsegregation models for direct-chill casting and twin-roll strip casting of Al based alloys, IMPOL d.d., 2004.

11. I. Vušanović, "Measuring and Simulation of Energetic Processes", CDP+ Project No. 011 (2) supported and financed by WUS Austria, 2005.

International Conferences organizations

1. S. N. Atluri, I. Vušanović and B. Šarler, "ICCES Special symposium on Meshless & Other Novel Computational Methods - Book of abstracts", University of Montenegro, ISBN 978-9940-527-25-9, COBISS.CG-ID 20773392, 2012

Invited lectures

1. I. Vušanović, "Horizontal direct chill castings of aluminum alloys: challenges and perspectives", University of Ljubljana, Faculty of Mechanical engineering, September 2019 (invited lecture).

2. I. Vušanović, "Current Challenges in Modeling Solidification Processes", Warren Lecture Series at Department of Civil, Environmental and Geo – Engineering, University of Minnesota, September

2017 (invited lecture).

3. I. Vušanović, "Modeling issues in transport phenomena with phase change in multicomponent systems", Nanjing University, February 2014 (invited lecture)
4. I. Vušanović, "Micro and Macroseggregation during the DC casting in ternary Al", University Pierre & Marie CURIE, Fast Laboratory, September 2006, (seminar);
5. I. Vušanović, "Micro-macroseggregation in ternary alloys - review of previous work and future challenges", University of Birmingham, School of Engineering, June 2006, (invited lecture);
6. I. Vušanović, "Numerical and experimental modeling of macroseggregation in ternary aluminum alloys, Nova Gorica Polytechnic, March, 2004 (invited lecture)

Strategies and Expertise (as an author or co – author)

1. N. Kažić, P. Vukoslavčević, D. Ivanović, I. Vušanović, U. Karadžić, V. Ivanović, E. Tombarević, M. Šekularac, "Elaborat za rješavanje problema zagadjenosti u Pljevljima, Centar za Energetiku, Mašinski fakultet UCG, Jun 2015.
2. I. Vušanović, "Cma Gora u XXI stoljeću u eri kompetitivnosti, Podprojekat ENERGIJA, Crnogorska Akademija Nauka i Umjetnosti (CANU), Podgorica, April 2010 (u izradi).
3. H. Birkeland, K. O. Nerland, V. Rodić Igor Vušanović, "Montenegro - Prestudy Energy Efficiency and Renewable Energy Agency in Montenegro", NORSE ENERGY, Project No. 04 – 28499, April 2008.
4. I. Vujošević, I. Vušanović, F. Daganand, "Energy Efficiency Strategy for Montenegro with action plan for 2005 – 2006", Technical assistance to the Ministry of Economy and EPCG, Podgorica, April 2005.
5. I. Vušanović, V. Čulafić, R. Bulatović, D. Bajić, M. Janjić, "Elaborat Stručne Komisije u Vezi havarije na Autoklavu Ra15 u Fabrici Glinica u KAP-u", Mašinski fakultet Univerziteta Crne Gore, Podgorica, Novembar 2004.

Master thesis – Advisor (A) and Committee member (M)

1. Maliq Pireci, "Upporedna analiza proračuna korišćenjem standarda MEST EN ISO 13790 i software-a RETScreen za potrebe analiza energetske efikasnosti objekata", University of Montenegro, Faculty of Mechanical Engineering, December 2019. (A).
2. Marko Đekić, "Energy use analysis of residential building equipped with heat pumps in Montenegro", University of Montenegro, Faculty of Mechanical Engineering, October 2017. (A).
3. Esad Tombarević, "Modelling of phase change in ice storage with horizontal pipe", University of Montenegro, Faculty of Mechanical Engineering, March 2009. (A).
4. Milan Šekularac, "Analysis of dynamic of operation of a HVC system heat pump – air conditioning unit", University of Montenegro, Faculty of Mechanical Engineering, July 2008. (A)
5. Uroš Karadžić, "Analysis fluid transients phenomena in hydraulic systems", University of Montenegro, Faculty of Mechanical Engineering, October 2004. (A)
6. Sanja Radović, "Investigation of controlled cooling in continuous rolling of iron bars", University of Montenegro, Faculty of Metallurgy and Technology, University of Montenegro, December 2004. (M)

PhD thesis – Advisor (A) and Committee member (M)

1. Vidosava Vilotijević, "Numerical simulations and field data analyses of aerodynamical noise generation by wind turbine, PhD thesis, University of Montenegro, Faculty of Mechanical Engineering, in progress.... (A)
2. Esad Tombarević, "Analysis of unsteady heat transfer in the geothermal u-tube borehole heat exchangers" PhD thesis, University of Montenegro, Faculty of Mechanical Engineering, July 2016. (A)
3. Uroš Karadžić, "Modelling of complex boundary conditions for transients in hydraulic systems", University of Montenegro, Faculty of Mechanical Engineering, November 2008. (M)

Teaching experience

1. Thermodynamics
2. Refrigeration
3. Heating boilers
4. Heating ventilation and Air Conditioning (HVAC)
5. Numerical Heat Transfer
6. Measuring and simulation of energetic processes