Name of teacher:	Igor Ružić

Employed at: **Since:**	University of Rijeka, Faculty of Civil Engineering 2005

Academic rank: **Since:** **In:**	Full Professor 1.3.2025. Technical Sciences, Field: Civil Engineering, Branch: Hydraulic Engineering

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Knowledge of foreign languages:	English, Italian

Qualifications	**- date of birth, nationality: April 6, 1977, Croatian** **- First degree obtained at: University of Rijeka, Faculty of Civil Engineering (2003)** **- Ph.D. degree obtained at: University of Rijeka (2014, thesis: Dynamics of Gravel Beaches in the Kvarner Region)** **- additional education:** **- previous employments: Research stays in the UK, Japan, Slovenia, Serbia**

List of papers published in scientific journals	• *Benac, Čedomir; Bočić, Neven; Wacha, Lara; Maglić, Lovro; Ružić, Igor* *The Recent and Submerged Tombolos—Unique Phenomena on the Adriatic Sea // Journal of marine science and engineering, 12 (2024), 9 (1575); 1-16. doi: 10.3390/jmse12091575* • *Ban, Ivana; Deluka-Tibljaš, Aleksandra; Ružić, Igor* *Skid Resistance Performance Assessment by a PLS Regression-Based Predictive Model with Non-Standard Texture Parameters // Lubricants, 12 (2024), 1; 23, 27. doi: 10.3390/lubricants12010023* • *Tadić, Andrea; Krvavica, Nino; Benac, Čedomir; Ružić, Igor* *Coastal vulnerability index for the indented coastline of Primorje-Gorski Kotar County, Croatia // Regional studies in marine science, 80 (2024), 103862-103877. doi: 10.1016/j.rsma.2024.103862* • *Tadić, Andrea ; Ružić, Igor ; Krvavica, Nino ; Ilić, Suzana* *Post-Nourishment Changes of an Artificial Gravel Pocket Beach Using UAV Imagery // Journal of marine science and engineering, 10 (2022), 3; 358, 24. doi: 10.3390/jmse10030358* • *Ružić, Igor ; Benac, Čedomir ; Dugonjić Jovančević, Sanja ; Radišić, Maja* *The Application of UAV for the Analysis of Geological Hazard in Krk Island, Croatia, Mediterranean Sea // Remote sensing, 13 (2021), 9; 1790, 14. doi: 10.3390/rs13091790* • *Dugonjić Jovančević, Sanja ; Rubinić, Josip ; Ružić, Igor ; Radišić, Maja* *Influence of Carbonate-Flysch Contact and Groundwater Dynamics on the Occurrence of Geohazards in Istria, Croatia // Land (Basel), 10 (2021), 5; 441, 14. doi: 10.3390/land10050441* • *Radišić, Maja ; Rubinić, Josip ; Ružić, Igor ; Brozinčević, Andrijana* *Hydrological System of the Plitvice Lakes—Trends and Changes in Water Levels, Inflows, and Losses // Hydrology, 8 (2021), 4; 174, 27. doi: 10.3390/hydrology8040174* • *Krvavica, Nino ; Ružić, Igor* *Assessment of sea-level rise impacts on salt-wedge intrusion in idealized and Neretva River Estuary // Estuarine, coastal and shelf science, 234 (2020), 106638, 13. doi: 10.1016/j.ecss.2020.106638* • *Krvavica, Nino ; Peroli, Gabrijel ; Ružić, Igor ; Ožanić, Nevenka* *Time-dependent numerical model for simulating internal oscillations in a sea organ // Ocean engineering, 205 (2020), 107336, 11. doi: 10.1016/j.oceaneng.2020.107336* • *Karleuša, Barbara ; Krvavica, Nino ; Ružić, Igor* *Selection of appropriate coastal protection structure using AHP method // Environmental sciences proceedings, 2 (2020), 1; 4, 10. doi: 10.3390/environsciproc2020002004*

	• *Benac, Čedomir ; Bočić, Neven ; Ružić, Igor*
	On the origin of both a recent and submerged tombolo on Prvić Island in the Kvarner area (Adriatic Sea, Croatia) // Geologia Croatica, 72 (2019), 3; 195-203. doi: 10.4154/gc.2019.14
	• *Ružić, Igor ; Dugonjić Jovančević, Sanja ; Benac, Čedomir ; Krvavica, Nino*
	Assessment of the Coastal Vulnerability Index in an Area of Complex Geological Conditions on the Krk Island, Northeast Adriatic Sea // Geosciences, 9 (2019), 5; 1-17. doi: 10.3390/geosciences9050219
	• *Krvavica, Nino ; Ružić, Igor ; Ožanić, Nevenka*
	New Approach to Flap-Type Wavemaker Equation with Wave Breaking Limit // Coastal engineering journal, 60 (2018), 1; 69-78. doi: 10.1080/21664250.2018.1436242
	• *Ružić, Igor ; Benac, Čedomir ; Ilić, Suzana ; Krvavica, Nino ; Rubinić, Josip*
	Geomorfološke promjene minijaturnog žala na kršu // Hrvatske Vode, 26 (2018), 103; 27-34
	• *Pikelj, Kristina ; Ružić, Igor ; Ilić, Suzana ; James, Mike R. ; Kordić, Branko*
	Implementing an efficient beach erosion monitoring system for coastal management in Croatia // Ocean & coastal management, 156 (2018), 223-238. doi: 10.1016/j.ocecoaman.2017.11.019
	• *Benac, Čedomir ; Rubinić, Josip ; Ružić, Igor ; Radišić, Maja*
	Geomorfološka evolucija riječnih dolina i ušća na istarskom poluotoku // Hrvatske Vode, 24 (2017), 100; 71-80
	• *Dugonjić Jovančević, Sanja ; Peranić, Josip ; Ružić, Igor ; Arbanas, Željko*
	Analysis of a historical landslide in the Rječina River Valley, Croatia // Geoenvironmental disasters, 3 (2016), 26; 1-9. doi: 10.1186/s40677-016-0061-x
	Ružić, Igor ; Benac, Čedomir
	Vulnerability of the Rab island coastline due to sea level rise // Hrvatske Vode, 24 (2016), 67; 203-214
	• *Ružić, Igor ; Benac, Čedomir ; Marović, Ivan ; Ilić, Suzana*
	A stability assessment of coastal cliffs using digital imagery // Acta Geotechnica Slovenica, 12 (2015), 2; 25-35
	• *Benac, Čedomir ; Juračić, Mladen ; Matičec, Dubravko ; Ružić, Igor ; Pikelj, Kristina*
	Fluviokarst and classical karst: Examples from the Dinarics (Krk Island, Northern Adriatic, Croatia) // Geomorphology, 184 (2013), 64-73. doi: 10.1016/j.geomorph.2012.11.016
	• *Benac, Čedomir ; Ružić, Igor ; Žic, Elvis*
	Ranjivost obala u području Kvarnera // Pomorski zbornik, 44 (2007), 201-214
	• *Ružić, Igor ; Rubinić, Josip ; Ožanić, Nevenka*
	Modeliranje sintetičkih nizova podataka – primjer modeliranja mjesečnih količina oborina // Građevinar : časopis Hrvatskog saveza građevinskih inženjera, 59 (2007), 8; 665-673
	• *Ružić, Igor ; Marović, Ivan ; Benac, Čedomir ; Ilić, Suzana*
	Coastal cliff geometry derived from structure- from-motion photogrammetry at Stara Baška, Krk Island, Croatia // Geo-marine letters, 34 (2014), 6; 555-565. doi: 10.1007/s00367-014-0380-4

List of publications which serve as a proof of teaching qualifications	• *Tadić, A., Krvavica, N., Benac, Č., & Ružić, I. (2024). Coastal vulnerability index for the indented coastline of Primorje-Gorski Kotar County, Croatia.* Regional Studies in Marine Science, 80*, 103862-103877. doi:* 10.1016/j.rsma.2024.103862 • *Tadić, A., Ružić, I., Krvavica, N., & Ilić, S. (2022). Post-nourishment changes of an artificial gravel pocket beach using UAV imagery.* Journal of Marine Science and Engineering, 10*(3), 358. doi:* 10.3390/jmse10030358 • *Ružić, I., Benac, Č., Dugonjić Jovančević, S., & Radišić, M. (2021). The application of UAV for the analysis of geological hazard in Krk Island, Croatia, Mediterranean Sea.* Remote Sensing, 13*(9), 1790. doi:* 10.3390/rs13091790 • *Ružić, I., Dugonjić Jovančević, S., Benac, Č., & Krvavica, N. (2019). Assessment of the coastal vulnerability index in an area of complex geological conditions on the Krk Island, northeast Adriatic Sea.* Geosciences, 9*(5), 219. doi:* 10.3390/geosciences9050219 • *Pikelj, K., Ružić, I., Ilić, S., James, M. R., & Kordić, B. (2018). Implementing an efficient beach erosion monitoring system for coastal management in Croatia.* Ocean & Coastal Management, 156*, 223-238. doi:* 10.1016/j.ocecoaman.2017.11.019

	• *Ružić, I., Marović, I., Benac, Č., & Ilić, S. (2014). Coastal cliff geometry derived from structure-from-motion photogrammetry at Stara Baška, Krk Island, Croatia.* Geo-Marine Letters, 34*(6), 555-565. doi:* 10.1007/s00367-014-0380-4

Leader of the following research projects	• 2024–2026: RESONANCE – Improving Landslide Risk Prevention and Management in Coastal Areas, Interreg Italy – Croatia, Faculty of Civil Engineering, University of Rijeka – project leader. • 2019–2023: Management of Karst Coastal Aquifers under the Pressure of Climate Change – project leader since 2012. • 2014–2017: Geological Hazards in the Kvarner Region, Faculty of Civil Engineering, University of Rijeka – project leader since 2017.

Participant in the following research projects	• 2024–2026: CRESCO Adria – Climate RESiliEnt COastal Planning in Adriatic, Interreg Italy – Croatia, Faculty of Civil Engineering, University of Rijeka – research associate. • 2023–2027: Compound Flooding in Coastal Croatia under Present and Future Climate (4SEAFLOOD), Faculty of Civil Engineering, University of Rijeka – research associate. • 2012: Research of Morphodynamic Changes of Beaches in the Kvarner Area, Croatian Science Foundation – research fellow. • 2007–2013: Assessment, Mitigation and Management of Geological Hazards in the Kvarner Region, Ministry of Science of the Republic of Croatia (114-0982709-2586) – researcher. • 2007–2013: Hydrology of Sensitive Water Resources in Karst, Ministry of Science of the Republic of Croatia (114-0982709-2549) – researcher. • 2002–2006: Scientific Basis for the Development of Irrigation in the Republic of Croatia, Ministry of Science of the Republic of Croatia (114003) – researcher. • 2011–2013: Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia, Croatian-Japanese project – researcher. • 2014–2016: DRINKADRIA – Networking for Drinking Water Supply in the Adriatic Region, IPA ADRIATIC CBC Programme – researcher. • 2014–2015: ŽIVO – Living-Water!/Life-Water!, EFRR, OP SLO-HR, Faculty of Civil Engineering Rijeka – head of hydrometric measurements. Study produced: Study of Water Resource Characteristics in the Cross-Border Region of Northern Istria (Postojna, Rijeka, Koper, 2015). • 2006–2007: Keep Water Clean, EU project – INTERREG IIIA, City of Čabar – head of the hydrology component (Croatian side). Study produced: Monitoring of Water Conditions – Hydrological Observations in the Prezid Area (Faculty of Civil Engineering Rijeka, 2007). • 2017: Hydrodynamic Modelling of the Plitvice Lakes System, joint project of the Faculty of Science in Zagreb, Faculty of Civil Engineering in Rijeka, and Faculty of Geotechnics in Varaždin. Client: Plitvice Lakes National Park – research associate in hydrological studies. • 2017: Monitoring of Morphological Changes in the Korana River Channel (from the 3rd Korana Waterfall to Sastavci) – project leader. Client: Plitvice Lakes National Park. • 2015: Research on Water and Sediment Quality in the Dead Channel (Mrtvi kanal) in Rijeka – head of hydrometric measurements. Client: Teaching Institute for Public Health of Primorje-Gorski Kotar County.

Supervision of PhD theses	2

Examination of PhD theses	4