

# Životopis

## IME

**DAMIR JUKIĆ**

## OBRAZOVANJE

- Datum: 18.01.1991.  
Mjesto: Split  
Naziv obrazovne ustanove: Građevinski fakultet, Sveučilište u Splitu  
Titula: **diplomirani inženjer građevinarstva**
- Datum: 28.01.1996.  
Mjesto: Split  
Naziv obrazovne ustanove: Građevinski fakultet, Sveučilište u Splitu  
Titula: **magistar znanosti**, tehničke znanosti, građevinarstvo, hidrotehnika
- Datum: 15.02.2005.  
Mjesto: Split  
Naziv obrazovne ustanove: Građevinsko-arhitektonski fakultet, Sveučilište u Splitu  
Titula: **doktor znanosti**, tehničke znanosti, građevinarstvo, hidrotehnika  
Naziv disertacije: Uloga transfer funkcija pri izradi balance i modeliranju otjecanja u kršu

## RADNO ISKUSTVO

- Datum (od – do): 1.10.1991. – 30.06.1992.  
Naziv firme: **IGH, Split**  
Sektor: Odjel za hidrotehniku  
Radno mjesto: **projektant**
- Datum (od – do): 1.07.1992. – 30.06.2000.  
Naziv firme: **Građevinski fakultet, Sveučilište u Splitu**  
Katedra: Katedra za sanitarnu hidrotehniku  
Radno mjesto: **znanstveni novak**
- Datum (od – do): 1.12.2001. – 31.10.2007.  
Naziv firme: **Hrvatske vode, VGO Split**  
Sektor: Odjel za razvoj i katastar  
Radno mjesto: **glavni inženjer**
- Datum (od – do): 1.11.2007. – danas  
Naziv firme: **Fakultet građevinarstva arhitekture i geodezije, Sveučilište u Splitu**  
Sektor: Katedra za hidrologiju  
Radno mjesto: **redoviti profesor, trajno zvanje**

## NASTAVNE KOMPETENCIJE

- Građevinski fakultet, Sveučilište u Splitu, 1992-2000, **asistent** iz predmeta: Opskrba vodom i kanalizacije, Zaštita voda, Hidrotehnički sustavi
- Sveučilište u Splitu, 2000-2002, **predavač** iz predmeta: Opskrba vodom i kanalizacije, Zaštita voda
- Fakultet građevinarstva arhitekture i geodezije, Sveučilište u Splitu, 2007-danas, **profesor** iz predmeta: Uređenje vodotoka, Hidrologija krša, Modeliranje kakvoće površinskih voda, Zaštita voda, Integralna zaštita prostora, Inženjerska hidrologija.

## ZNANSTVENE KOMPETENCIJE

### ČLANCI U ZNANSTVENIM ČASOPISIMA (najrelevantniji):

- Jukić, Damir; Denić-Jukić, Vesna, An alternative approach to investigation of sediment transport through a karst aquifer // *Journal of hydrology*, 625 (2023), Part A; 130037, doi: <https://doi.org/10.1016/j.jhydrol.2023.130037>.
- Kadić, Ana; Denić-Jukić, Vesna; Jukić, Damir, Exceeding Turbidity versus Karst Spring Discharge during Single Rainfall Events: The Case of the Jadro Spring // *Water*, 15/2023 (2023), 14; 2589, 17. doi: <https://doi.org/10.3390/w15142589>.
- Jukić, Damir; Denić-Jukić, Vesna; Kadić, Ana, Temporal and spatial characterization of sediment transport through a karst aquifer by means of time series analysis // *Journal of hydrology*, 609 (2022), 127753, 14. doi: [10.1016/j.jhydrol.2022.127753](https://doi.org/10.1016/j.jhydrol.2022.127753).
- Jukić, Damir; Denić-Jukić, Vesna; Lozić, Ana, An alternative method for groundwater recharge estimation in karst // *Journal of hydrology*, 600 (2021), 126671, 12. doi: [10.1016/j.jhydrol.2021.126671](https://doi.org/10.1016/j.jhydrol.2021.126671).
- Denić-Jukić, Vesna; Lozić, Ana; Jukić, Damir, An Application of Correlation and Spectral Analysis in Hydrological Study of Neighboring Karst Springs // *Water*, 12 (2020), 3570, 19. doi: <https://doi.org/10.3390/w12123570>.
- Kadić, Ana; Denić-Jukić, Vesna; Jukić, Damir, Analiza meteoroloških i hidroloških odnosa u kršu primjenom parcijalne kros-korelacijske funkcije višeg reda // *Hrvatske Vode*, 27 (2019), 109; 201-210.
- Kadić, Ana; Denić-Jukić, Vesna; Jukić, Damir, Revealing hydrological relations of adjacent karst springs by partial correlation analysis // *Hydrology Research*, 49 (2018), 3; 616-633. doi: [10.2166/nh.2017.064](https://doi.org/10.2166/nh.2017.064).
- Jukić, Damir; Denić-Jukić, Vesna, Investigating relationships between rainfall and karst-spring discharge by higher-order partial correlation functions // *Journal of hydrology*, 530 (2015), 24-36. doi: [10.1016/j.jhydrol.2015.09.045](https://doi.org/10.1016/j.jhydrol.2015.09.045).
- Jukić, Damir; Denić-Jukić, Vesna, Partial spectral analysis of hydrological time series // *Journal of hydrology*, 400 (2011), 1/2; 223-233. doi: [10.1016/j.jhydrol.2011.01.044](https://doi.org/10.1016/j.jhydrol.2011.01.044).
- Jukić, Damir; Denić-Jukić, Vesna, Groundwater balance estimation in karst by using a conceptual rainfall-runoff model // *Journal of hydrology*, 373 (2009), 3-4; 302-315. doi: [10.1016/j.jhydrol.2009.04.035](https://doi.org/10.1016/j.jhydrol.2009.04.035).
- Jukić, Damir; Denić-Jukić, Vesna, Estimating parameters of groundwater recharge model in frequency domain: Karst springs Jadro and Žrnovnica Hydrological Processes, 22 (2008), 23; 4532-4542. doi: [10.1002/hyp.7057](https://doi.org/10.1002/hyp.7057).
- Bonacci, Ognjen; Jukić, Damir; Ljubenkov, Igor, Definition of catchment area in karst: case of the rivers Krčić and Krka, Croatia // *Hydrological sciences journal*, 51 (2006), 4; 682-699.
- Jukić, Damir; Denić-Jukić, Vesna, Nonlinear kernel functions for karst aquifers // *Journal of hydrology*, 328 (2006), 360-374.
- Jukić, Damir; Denić-Jukić, Vesna, A frequency domain approach to groundwater recharge estimation in karst // *Journal of hydrology*, 289 (2004), 1-4; 95-110.
- Denić-Jukić, Vesna; Jukić, Damir, Composite transfer functions for karst aquifers // *Journal of hydrology*, 274 (2003), 1-4; 80-94.

#### RADOVI PREZENTIRANI NA KONFERENCIJAMA (najrelevantniji):

- Kadić, Ana; Denić-Jukić, Vesna; Jukić, Damir, Higher-order Partial Cross-correlation Analysis of Adjacent Karst Springs // 8th World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium: Abstract Book. Prag: World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), 2023, 41-41.
- Kadić, Ana; Dadić, Ana; Slatina, Ivona; Duplančić-Leder, Tea; Jukić, Damir; Denić-Jukić, Vesna, Hydrological functioning of three karst springs located in the Cetina River catchment in Croatia // Geophysical Research Abstracts, EGU General Assembly, Vienna, 2019.
- Jukić, Damir; Slatina, Ivona; Denić-Jukić, Vesna, EFFECTS OF HYDROPOWER RESERVOIRS ON HYDROLOGY OF TWO ADJACENT KARST SPRINGS // 18th International Multidisciplinary Scientific GeoConference SGEM, Vienna, 2018, Conference Proceedings, Volume 18, Science and Technologies in Geology, Oil and Gas Exploration, Water Resources, Forest Ecosystems, Issue:1.5, Oil and Gas Exploration, Hydrology and Water Resources, Forest Ecosystems. Sofija: SGEM, 2018, 267-274, doi: 10.5593/SGEM2018V/1.5/S02.033.
- Carić, Ana; Denić-Jukić, Vesna; Jukić, Damir, Analyses of time variabilities of runoff coefficients at two neighbouring karst catchments // Geophysical Research Abstracts, EGU General Assembly, Vienna, 2018.
- Jukić, Damir; Denić-Jukić, Vesna, Investigation of spatial and temporal variability of groundwater flow process by using higher-order partial correlation functions: theoretical considerations // Geophysical Research Abstracts, EGU General Assembly, Vienna, 2018.
- Denić-Jukić, Vesna; Kadić, Ana; Jukić, Damir, HIGHER-ORDER PARTIAL CROSS-CORRELATION FUNCTION AS A TOOL FOR INVESTIGATING HYDROLOGICAL RELATIONS IN KARST // 17th International Multidisciplinary Scientific GeoConference SGEM, Vienna, 2017, Conference Proceedings, Volume 17, Water Resources. Forest, Marine and Ocean Ecosystems, Issue 33, Hydrology and Water Resources, Forest Ecosystems. Sofija: SGEM, 2017, 187-194 doi: 10.5593/SGEM2017H/33/S12.023.
- Jukić, Damir; Denić-Jukić, Vesna, A THEORETICAL BASIS FOR APPLICATION OF PARTIAL CORRELATION FUNCTIONS IN HYDROLOGICAL SYSTEM ANALYSIS WITH REFERENCE TO KARST // 17th International Multidisciplinary Scientific GeoConference SGEM, Vienna, 2017, Conference Proceedings, Volume 17, Water Resources. Forest, Marine and Ocean Ecosystems, Issue 33, Hydrology and Water Resources, Forest Ecosystems. Sofija: SGEM, 2017, 11-18 doi: 10.5593/sgem2017H/33/S12.002.
- Kadić, Ana; Jukić, Damir; Denić-Jukić, Vesna, Study of hydrological relations between two adjacent karst springs by means of time series analysis // Aqua 2015, Hydrogeology: Back to the Future! Roma, The International Association of Hydrogeologists, 2015.
- Andrić, Ivo; Bonacci, Ognjen; Denić-Jukić, Vesna; Jukić, Damir, Hydrologic budget of the intermittent karst lake Modro jezero // Geophysical Research Abstracts Vol. 15. EGU2013-6048, 2013 EGU General Assembly, Vienna, 2013.
- Kapelj, Sanja; Kapelj, Janislav; Jukić, Damir; Denić-Jukić, Jasna; Švonja, Mirjana; Tepeš, Predrag; Loborec, Jelena; Dogančić, Dragana; Biondić, Božidar; Leis, Albrecht, Integral approach for the protection of the Jadro and Žrnovnica springs catchment - Dalmatia, Croatia // Sustainability of the Karst environment - Dinaric Karst and other Karst regions / Ognjen Bonacci (ur.). Gospić: Plitvička jezera: Sveučilišna tiskara, 2009, 79-80.
- Jukić, Damir; Denić-Jukić, Vesna; Teskera, Ivan, Groundwater recharge estimation in karst by combining soilmoisture and groundwater balance approaches: example of the Jadro Spring, Croatia // International Interdisciplinary Conference on Predictions for Hydrology, Ecology and Water Resources Management: Using Data and Models to Benefit Society / Jyri Bruthans, Karel

Kovar, Zbynek Hrkal (ur.). Prag, Czech Association of Hydrogeologists, 2008, 175-178.

- Jukić, Damir; Denić-Jukić, Vesna, Study of role of soil cover and epikarst zone in karst springs discharge generation by means of correlation and spectral analysis // Flow and Transport in Heterogeneous Subsurface Formations: Theory, Modelling & Applications. Istanbul: Bogazici University, 2008.
- Jukić, Damir; Denić-Jukić, Vesna, Estimation of parameters of groundwater recharge model in frequency domain International Conference ModelCARE 2007, Calibration and Reliability in Groundwater Modeling, Credibility of Modeling.
- Denić-Jukić, Vesna; Jukić, Damir; Vego, Goran, Karst springs discharge modeling by using the composite transfer functions: example of the Žrnovnica and Jadro Springs // XXXV Congress of the International Association of Hydrogeologists, Groundwater and Ecosystems, Proceedings / L. Ribeiro, A. Chambel & M.T. Condesso de Melo Eds. (ur.). Lisbon: DTP Solutions, Cape Town, South Africa, 2007.

#### ZNANASTVENI PROJEKTI:

- Znanstveni projekt financiran od strane Ministarstva znanosti RH: "**Decision support systems in costal water management**", 1992-1996, **istraživač**, Ref. No. 2-11-347.
- Znanstveni projekt financiran od strane Ministarstva znanosti RH: "**Development of models for water resources management in energetic**", 1996-2000, **istraživač**, Ref. No. 083172.
- Međunarodni znanstveni projekt financiran od strane Ministarstva znanosti RH i JICA: "**Risk Identification and Land-Use Planning for Disaster Mitigation of Landslides and Floods in Croatia**", Ministry of Science, Education and Sports of the Republic of Croatia, Japanese Cooperation Agency JICA, preliminary phase 2009-2010, **istraživač**.
- Znanstveni projekt financiran od strane Ministarstva znanosti RH: "**Water balance and flow modeling in karst**", 2007-2013, **istraživač**, Ref. No. 083-0831510-1513.
- Znanstveni projekt financiran od strane Ministarstva znanosti RH: "**Groundwater and surface water monitoring in karst areas**", **voditelj projekta**, 2007-2013, Ref. No. 083-0822695-1526.
- Znanstveni projekt financiran od strane Ministarstva znanosti RH i EU: Project KK.01.1.1.02.0027 co-financed by the Croatian Government and the European Union through the European Regional Development Fund - the Competitiveness and Cohesion Operational Program, **istraživač**.

#### NAGRADA:

- Nagrada Hrvatskih voda za najbolju doktorsku disertaciju u 2005. god.

#### ČLANSTVA:

- International Association of Hydrogeologists (IAH)
- International Association of Hydrological Sciences (IAHS)
- European Geophysics Union (EGU)
- American Geophysics Union (AGU)

#### STRUČNE KOMPETENCIJE

- Voditelj međunarodnog projekta "Development of a Framework for Formulation of Water Management Plans in the Water Districts of the Coastal Zone of Croatia", 2004-2006. Project was identified under the Memorandum of Understanding between the Nederland and Croatia which was signed 17 November 2000. The Nederland Ministry of Economic Affairs supported this project through the Program for Cooperation with Countries in Central and Eastern Europe (PSO),

- Voditelj, suradnik i projektant na brojnim projektima u području hidrotehnike (vodoopskrbni sustavi, kanalizacijski sustavi, hidrološke studije, regulacije i uređenja vodotoka, itd.),
- Konzultant i suradnik na izradi nekoliko studija utjecaja na okoliš uređaja za pročišćavanje otpadnih voda.