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Employed at: **Since:**	University of Rijeka, Faculty of Civil Engineering 1.10.2019.

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Knowledge of foreign languages:	English (fluent), Slovenian (understanding, reading), Italian (basic), Spanish (basic)

Qualifications	**- date of birth, nationality:** 24.8.1969., Rijeka, Croatia **- First degree obtained at:** University of Zagreb, Faculty of Civil Engineering **- MSc. degree obtained at**: International Institute for Aerospace Survey and Earth Sciences, Enschede, The Netherlands **- additional education:** Flood Risk Management and the Water Framework Directive (course), ECORYS Nederland B.V., Grontmij Nederland BV, WL/Delft Hydraulics, Rotterdam, The Netherlands (certificate); Hyperspectral Remote Sensing (distance course), International Institute for Geo-information Science and Earth Observation, Enschede, The Netherlands (certificate) **- previous employments:** Hrvatske vode, Zagreb (2005.-2019.; 2001.-2002.; 2000.-2001.; 1996.-1998.), Hrvatske vode, VGO Rijeka, (2002.-2005.)

List of papers published in scientific journals	**Horvat, B.**, Karleuša. B., Conceptual Model for Integrated Meso-Scale Fire Risk Assessment in the Coastal Catchments in Croatia, Remote Sensing 16 (2024), 12, 2118-13 (doi: 10.3390/rs16122118). **Horvat, B.**, Krvavica N., Disaggregation of the Copernicus Land Use/Land Cover (LULC) and Population Density Data to Fit Mesoscale Flood Risk Assessment Requirements in Partially Urbanized Catchments in Croatia, Land 12 (2023), 11, 2014-22 (doi: 10.3390/land12112014). Krvavica N., Šiljeg, A., **Horvat, B.**, Panđa, L., Pluvial Flash Flood Hazard and Risk Mapping in Croatia: Case Study in the Gospić Catchment, Sustainability 15 (2023), 2, 1197-26 (doi: 10.3390/su15021197). **Horvat, B.**, Rubinić, J., Evaluating the Applicability of Thermal Infrared Remote Sensing in Estimating Water Potential of the Karst Aquifer: A Case Study in North Adriatic, Croatia, Remote Sensing 13 (2021), 18, 3737 (doi: 10.3390/rs13183737). Ivezić, V., Bekić, D., **Horvat, B.**, Modelling of Basin Wide Daily Evapotranspiration with a Partial Integration of Remote Sensing Data, Atmosphere 9 (2018), 4, 120 (doi: 10.3390/atmos9040120). **Horvat, B.**, Spatial Dynamics of Actual Daily Evapotranspiration, Građevinar 65 (2013), 8, pp. 693-705 (doi: 10.14256/jce.837.2013). **Horvat, B.**, Rubinić, J., Annual Runoff Estimation – An Example of Karstic Aquifers in the Transboundary Region of Croatia and Slovenia, 51 (2006), 2, pp. 314-324 (doi: 10.1623/hysj.51.2.314). **Horvat B.**, Fusion of Satellite Imagery as Exemplified by Land Cover Mapping, Hrvatske vode, 14 (2006), 54, pp. 15-23.

	Horvat, B.: Surface Runoff Modelling Using GIS and Remote Sensing. Hrvatske vode, 9 (2001), 34, pp. 47-57.

List of publications which serve as a proof of teaching qualifications	**Horvat, B.**, Karleuša. B., Conceptual Model for Integrated Meso-Scale Fire Risk Assessment in the Coastal Catchments in Croatia, Remote Sensing 16 (2024), 12, 2118-13 (doi: 10.3390/rs16122118). **Horvat, B.**, Rubinić, J., Evaluating the Applicability of Thermal Infrared Remote Sensing in Estimating Water Potential of the Karst Aquifer: A Case Study in North Adriatic, Croatia, Remote Sensing 13 (2021), 18, 3737 (doi: 10.3390/rs13183737). Butković, T., Maretić, A., **Horvat, B.**, Krvavica, N.: Procjena opsega poplave daljinskim istraživanjima. Zbornik radova (Građevinski fakultet Sveučilišta u Rijeci), 24 (2021), 1, 119-132 (doi: 10.3276/zr.24.1.7). **Horvat, B.**, Karleuša, B., Delač, D., Ožanić, N., Volf, G., Kisić, I.: Spektralni indeks NBR kao temelj za procjenu utjecaja opožarenosti površine na otjecajne karakteristike sliva. 8. Sabor hrvatskih graditelja "Graditeljstvo i klimatske promjene" (urednici Lakušić, Stjepan, Vrančić, Tanja), Zagreb: Hrvatski savez građevinskih inženjera (HSGI), 2021. str. 181-190 (doi: 10.14256/8SHG.2021.189). Ivezić, V., Bekić, D., **Horvat, B.**, Modelling of Basin Wide Daily Evapotranspiration with a Partial Integration of Remote Sensing Data, Atmosphere 9 (2018), 4, 120 (doi: 10.3390/atmos9040120). **Horvat, B.**, Oštrić, M.: Daljinska istraživanja u hidrologiji i hidrološkom modeliranju. Zbornik radova znanstveno-stručnog skupa s međunarodnim sudjelovanjem "Hidrologija u službi zaštite i korištenja voda te smanjenja poplavnih rizika – suvremeni trendovi i pristupi" (urednici J. Rubinić, I. Ivanković, G. Bušelić), Brela, 2018, 213-215. Ivezić, V., Bekić, D., **Horvat, B.**, Kadić, V.: Procjena prostorne raspodjele temperature zraka i evapotranspiracije uz integraciju daljinskih istraživanja. Zbornik radova znanstveno-stručnog skupa s međunarodnim sudjelovanjem "Hidrologija u službi zaštite i korištenja voda te smanjenja poplavnih rizika – suvremeni trendovi i pristupi" (urednici J. Rubinić, I. Ivanković, G. Bušelić), 2018, 221-224. **Horvat, B.**, Oštrić, M.: Energetska i vodna bilanca akumulacije Butoniga. Zbornik radova znanstveno-stručnog skupa "Upravljanje jezerima i akumulacijama u Hrvatskoj – procesi, zaštita i valorizacija" (urednik J. Rubinić), Biograd na moru, 2017, 115-118. **Horvat, B.**: Kartiranje poplave rijeke Save u svibnju 2014. godine daljinskim istraživanjima. Zbornik Radova 6. hrvatske konferencije o vodama s međunarodnim sudjelovanjem (urednici D. Biondić, D. Holjević), Opatija, 2015, 135-142. **Horvat, B.**, Kartiranje poplavljene površine korištenjem optičkih satelitskih snimaka, Hrvatske vode, 22 (88), 2014, 166-171. **Horvat, B.**, Daljinska istraživanja u monitoringu poplava, Hrvatska vodoprivreda, 22 (207), 2014, 113-115. **Horvat, B.**, Spatial Dynamics of Actual Daily Evapotranspiration, Građevinar 65 (2013), 8, pp. 693-705 (doi: 10.14256/jce.837.2013). Oštrić, M., **Horvat, B.**: Land Cover/Land Use Change Impact on Surface Runoff in Small Catchments. BALWOIS – 2008 (urednik M. Morell), Institut de Recherce pour le Developpement – France, Hydrometeorological Service of Republic of Macedonia, Hydrobiological Institute of Ohrid, 2008. **Horvat, B.**, Rubinić, J.: Kvantifikacija komponenata balance voda integracijom daljinskih istraživanja i hidrometrijskih mjerenja. Zbornik radova konferencije „Hidrološka mjerenja i obrada podataka". (urednica N. Ožanić), NP Plitvička jezera, 2008, 269-280. **Horvat, B.**, Hiperspektralna daljinska istraživanja u istraživanjima priobalnih i kopnenih voda, Hrvatske vode, 16 (65), 2008, 289-291. Rubinić, J., **Horvat, B.**, Kuhta, M., Stroj, A.: Analiza izdašnosti priobalnih izvora na području Opatije korištenjem termalnih infracrvenih satelitskih snimaka. Zbornik radova 4. hrvatske konferencije o vodama s međunarodnim sudjelovanjem (urednik D. Gereš), Opatija, 2007, 211-216. **Horvat, B.**, Bonacci, O.: Površinska temperatura kao ulazni parametar pri određivanju stvarne evapotranspiracije. Zbornik radova 4. hrvatske konferencije o vodama s međunarodnim sudjelovanjem (urednik D. Gereš), Opatija, 2007, 137-143. **Horvat B.**, Fusion of Satellite Imagery as Exemplified by Land Cover Mapping, Hrvatske vode, 14 (2006), 54, pp. 15-23.

	Horvat, B., Od Bavarske flote do Terra satelita, Hrvatska vodoprivreda, 14 (152/153), 2005, 64-69. **Horvat, B.**: Surface Runoff Modelling Using GIS and Remote Sensing. Hrvatske vode, 9 (2001), 34, pp. 47-57.

Leader of the following research projects	-

Participant in the following research projects	Hidrologija vodnih resursa i identifikacija rizika od posljedica klimatskih promjena na krškim područjima (Hydrology of water resources and identification of risks coused by the climate change in karstic areas), University of Rijeka Implementiranje inovativnih metodologija, tehnologija i alata za osiguravanje održivog upravljanja vodama (Implementation of the innovative methodologies, technologies and tools to ensure sustainable water management), University of Rijeka Održivo upravljanje riječnim slivom implementacijom inovativnih metodologija, pristupa i alata (Sustainable management of watersheds through implementation of inovative methodologies, approaches and tools), University of Rijeka CRESCO Adria – Climate RESiliEnt Coastal planning in Adriatic (Interreg V-A Italy-Croatia) Utjecaj otvorenih požara na kvalitetu tla i vode (Impact of open fires on quality of soils and water) (HRZZ IP-2018-01-1645) SWARM: Strengthening of master curricula in water resources management for the Western Balkan HEIs and stakeholders (ERASMUS+ 597888-EPP-1-2018-1-RS-EPPKA2-CBHE-JP) UKV: Upravljanje krškim priobalnim vodonosnicima ugroženima klimatskim promjenama (Management of karst coastal aquifers threatened by the climate change) (KK.05.1.1.02.0022) STREAM: Strategic Development of Flood Management (Interreg Italy-Croatia) (esternal participant) Danube Floodplain: Reducing the flood risk through floodplain restoration along the Danube River and tributaries (Interreg Danube Transnational Programme) (leader of the Croatian component) DAREFFORT: Danube River Basin Enhanced Flood Forecasting Cooperation (Interreg Danube Transnational Programme) (leader of the Croatian component)

Supervision of PhD theses	0

Examination of PhD theses	1