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Qualifications	- Date of birth, nationality: 3rd September 1966., Rijeka, Croatia, Croat - First degree obtained at: University of Rijeka Faculty of Civil Engineering - Master degree obtained at: University of Zagreb Faculty of Civil Engineering - Ph.D. degree obtained at: University of Zagreb Faculty of Civil Engineering
List of papers published in scientific journals	• Klobučar, Mira; Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Ištoka Otković, Irena A Theoretical Model for Optimizing Signalized Intersection and Roundabout Distance Using Microsimulations // Future transportation, 5 (2025), 1; 28, 24. doi: 10.3390/futuretransp5010028 • Ištoka Otković, Irena; Deluka-Tibljaš, Aleksandra; Zečević, Đuro; Šimunović, Mirjana Reconstructing Intersection Conflict Zones: Microsimulation-Based Analysis of Traffic Safety for Pedestrians // Infrastructures, 9 (2024), 12; 215-239. doi: 10.3390/infrastructures9120215 • Šurdonja, Sanja; Maršanić, Robert; Deluka-Tibljaš, Aleksandra Speed Analyses of Intersections Reconstructed into Roundabouts: A Case Study from Rijeka, Croatia // Infrastructures, 9 (2024), 9; 1-19. doi: 10.3390/infrastructures9090159 • 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 • Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Ištoka Otković, Irena; Campisi, Tiziana: Child-Pedestrian Traffic Safety at Crosswalks—Literature Review // Sustainability, 14 (2022), 1142, 23 doi:10.3390/su14031142 • Pranjić, Ivana; Deluka-Tibljaš, Aleksandra Pavement Texture–Friction Relationship Establishment via Image Analysis Methods // Materials, 15(3) (2022), 846, 17 doi:10.3390/ma15030846 • Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Ištoka Otković, Irena: Analysis of Children's Traffic Behaviour at Signalized Crosswalks as a Precondition for Safe Children Routes Design: A Case Study from Croatia // Journal of Advanced Transportation, 2021 (2021), 1-14 doi:10.1155/2021/7936261 • Ištoka Otković, Irena; Karleuša, Barbara; Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Marušić, Mario: Combining Traffic Microsimulation Modeling and Multi-Criteria Analysis for Sustainable Spatial- Traffic Planning // Land (Basel), 10 (2021), 7; 666, 26 doi:10.3390/land10070666 • Deluka-Tibljaš, Aleksandra; Ištoka Otković, Irena; Campisi, Tiziana; Šurdonja, Sanja: Comparative Analyses of Parameters Influencing Children Pedestrian Behavior in Conflict Zones of Urban Intersections // Safety, 7 (2021), 1; 1039109, 15 doi:10.3390/safety7010005 • Ištoka Otković, Irena; Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Campisi,

	Tiziana:Development of Models for Children—Pedestrian Crossing Speed at Signalized Crosswalks // Sustainability, 13 (2021), 2; 1057995, 18 doi:10.3390/su13020777 • Šurdonja, Sanja; Dragčević, Vesna; Deluka - Tibljaš, Aleksandra; Korlaet, Željko: Model radijusa putanje vozila u sredini kružnog raskrižja // Građevinar, 71 (2019), 03.; 163-175 doi:10.14256/JCE.2318.2018 • Deluka-Tibljaš, Aleksandra; Giuffre, Tullio; Šurdonja, Sanja; Trubia, Salvatore: Introduction of Autonomous Vehicles: Roundabouts Design and Safety Performance Evaluation // Sustainability, 10 (2018), 4; 1060, 14 doi:10.3390/su10041060 (međunarodna recenzija, članak, znanstveni) • Šurdonja, Sanja; Dragčević, Vesna; Deluka-Tibljaš, Aleksandra: Analyses of maximum-speed path definition at single-lane roundabouts // Journal of Traffic and Transportation Engineering (English Edition), 5 (2018), 2; 83-95 doi:10.1016/j.jtte.2017.06.006 • Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Babić, Sergije; Cuculić, Marijana. <u>Analyses of urban pavement surface temperatures</u> // The Baltic Journal of Road and Bridge Engineering. (2015) Vol 10, no. 3, 239-246; DOI 10.3846/BJRBE.2015.30 (ISSN 1822-427X, eISSN 1822-4288) • Karleuša, Barbara; Ožanić, Nevenka; Deluka-Tibljaš, Aleksandra:Improving decision making in defining priorities for implementation of irrigation plans using AHP methodology. // Tehnički vjesnik / Technical Gazette. (2014) (SCI Expanded, ISSN 1330-3651) 21 (2014), 3; 673-680 • Šurdonja, Sanja; Nežić, Daniela; Deluka-Tibljaš, Aleksandra. <u>The Roundabout Capacity Estimate Microsimulation Model</u>. // Pomorski zbornik. 49/50 (2015) , 1; 143-164 – in croatian • Deluka-Tibljaš, Aleksandra; Karleuša, Barbara; Dragičević, Nevena. <u>Review of multicriteria-analysis methods application in decision making about transport infrastructure</u>. // Građevinar : časopis Hrvatskog saveza građevinskih inženjera. 65 (2013) , 7; 619-631 • Šurdonja, Sanja; Deluka-Tibljaš, Aleksandra; Babić, Sergije. <u>Optimisation</u> of project eleemnt of roundabouts. //Technical gazette. 20 (2013) , 3; 533-539 • Babić, Sergije; Deluka-Tibljaš, Aleksandra; Cuculić, Marijana; Šurdonja, Sanja. <u>Analysis of pavement surface heating in urban areas</u>. // Građevinar. 64 (2012) , 2; 125-132 • Deluka-Tibljaš, Aleksandra; Karleuša, Barbara; Benac, Čedomir. <u>AHP methodology application in garage-parking facility location selection</u>. // Promet - Traffic & Transportation. 23 (2011) , 4; 303-313 • Šurdonja, Sanja; Deluka-Tibljaš, Aleksandra; Babić, Sergije. <u>Impact of design elements on roundabout level of service</u>. // Zbornik radova Građevinskoga fakulteta Sveučilišta u Rijeci. 14 (2011) ; 295-314 – in croatian • Cuculić, Marijana; Arbanas, Željko; Deluka-Tibljaš, Aleksandra.<u>Deformation properties of unbound granular materials</u>. // Zbornik Građevinskog fakulteta Sveučilišta u Rijeci. 1 (2009) ; 231-253 – in croatian
List of publications which serve as a proof of teaching qualifications	• Klobučar, Mirna; Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Ištoka Otković, Irena A Theoretical Model for Optimizing Signalized Intersection and Roundabout Distance Using Microsimulations // Future transportation, 5 (2025), 1; 28, 24. doi: 10.3390/futuretransp5010028 • Ištoka Otković, Irena; Deluka-Tibljaš, Aleksandra; Zečević, Đuro; Šimunović, Mirjana Reconstructing Intersection Conflict Zones: Microsimulation-Based Analysis of Traffic Safety for Pedestrians // Infrastructures, 9 (2024), 12; 215-239. doi: 10.3390/infrastructures9120215

	• Šurdonja, Sanja; Maršanić, Robert; Deluka-Tibljaš, Aleksandra Speed Analyses of Intersections Reconstructed into Roundabouts: A Case Study from Rijeka, Croatia // Infrastructures, 9 (2024), 9; 1-19. doi: 10.3390/infrastructures9090159 • 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 • Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Ištoka Otković, Irena; Campisi, Tiziana:Child-Pedestrian Traffic Safety at Crosswalks—Literature Review // Sustainability, 14 (2022), 1142, 23 doi:10.3390/ su14031142 • Pranjić, Ivana; Deluka-Tibljaš, Aleksandra Pavement Texture–Friction Relationship Establishment via Image Analysis Methods // Materials, 15(3) (2022), 846, 17 doi:10.3390/ma15030846 • Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Ištoka Otković, Irena:Analysis of Children's Traffic Behaviour at Signalized Crosswalks as a Precondition for Safe Children Routes Design: A Case Study from Croatia // Journal of Advanced Transportation, 2021 (2021), 1-14 doi:10.1155/2021/7936261) • Ištoka Otković, Irena; Karleuša, Barbara; Deluka- Tibljaš, Aleksandra; Šurdonja, Sanja; Marušić, Mario: Combining Traffic Microsimulation Modeling and Multi-Criteria Analysis for Sustainable Spatial- Traffic Planning // Land (Basel), 10 (2021), 7; 666, 26 doi:10.3390/land10070666 • Deluka-Tibljaš, Aleksandra; Ištoka Otković, Irena; Campisi, Tiziana; Šurdonja, Sanja:Comparative Analyses of Parameters Influencing Children Pedestrian Behavior in Conflict Zones of Urban Intersections // Safety, 7 (2021), 1; 1039109, 15 doi:10.3390/safety7010005 • Ištoka Otković, Irena; Deluka-Tibljaš, Aleksandra; Šurdonja, Sanja; Campisi, Tiziana:Development of Models for Children—Pedestrian Crossing Speed at Signalized Crosswalks // Sustainability, 13 (2021), 2; 1057995, 18 doi:10.3390/su13020777
Leader of the following research projects	- Research Grant of the University of Rijeka – Transport Infrastructure in the Function of Vulnerable Traffic Users 2024 – Today - Research Grant of the University of Rijeka – Transport Infrastructure in the Function of Sustainable Mobility 2018-2022 - Research Grant of the University of Rijeka "Sustainable Design of Pavement Structures in Urban Areas", 2013-2018
Participant in the following research projects	- Croatian-Slovenian project – Development of prediction model of children pedestrian behavior in the urban transport network, led by Dr. Irena Ištoka Otković, 2020-2022. - MZOS project code 114-1102147-3133: HDM-4 and its adaptation for use in the pavement management system (2009-2012), principal investigator Prof. Dr. Mate Sršen - Correlation of form and safety at intersections with roundabout traffic flow (2008-2012), MZOS project code: 135-0000000-3313, principal investigator: Prof. Dr. Ivan Legac - INTERREG III A PROGRAM – REVIEW AND CREATION OF THE ADRIATIC ROADS DATABASE (2004-2006) project leader: University of Trieste - MZOS project code 114102: Numerical analysis of quasi-brittle materials (1996-2002), principal investigator Prof. Dr. Ivica Kožar - Study of Rijeka urban traffic areas, MZOS project code 2-11-100: (1993-1996), principal investigator Prof. Dr. Andrija Prager

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