



Mihaela Domazetović

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🌐 **Website**: <https://scholar.google.com/citations?hl=hr&user=V1fIJX0AAAAJ>

🌐 **Website**: <https://www.croris.hr/osobe/profil/32304>

Gender: Female **Date of birth**: 19/02/1991 **Nationality**: Croatian

WORK EXPERIENCE

[12/05/2022 – Current] **Senior Teaching and Research Assistant**

Faculty of Civil Engineering and Architecture Osijek

City: Osijek | **Country**: Croatia

Teaching and researching in the field of building energy efficiency and building technology
Department for Organization, Technology and Management

[11/12/2014 – 12/05/2022] **Teaching and Research Assistant**

Faculty of Civil Engineering, University of Josip Juraj Strossmayer in Osijek

City: Osijek | **Country**: Croatia

Department for Organization, Technology and Management

EDUCATION AND TRAINING

[18/02/2022] **Ph.D. in Civil Engineering**

Faculty of Civil Engineering and Architecture Osijek

City: Osijek | **Country**: Croatia | **Thesis**: External walls energy renovation technology based on an improved temperature based method

[24/03/2019 – 03/04/2019] **ERASMUS + mobility of staff**

University of Warmia and Mazury in Olsztyn, Faculty of Geodesy, Geospatial and Civil Engineering

City: Olsztyn | **Country**: Poland

[14/05/2018 – 18/05/2018] **Infrared Thermographer Level 1**

Faculty of Civil Engineering, University of Zagreb in cooperation with Infrared Training Center

City: Zagreb | **Country**: Croatia

[10/03/2018 – 17/03/2018] **Scientific research work within the project IZIP-2016**

University of Warmia and Mazury in Olsztyn, Faculty of Geodesy, Geospatial and Civil Engineering

City: Olsztyn | **Country**: Poland

[26/06/2017 – 30/06/2017] **Ph. D. Course: Advanced Structural and Wind Engineering**

Budapest University of Technology and Economics

City: Budapest | **Country:** Hungary |

[2017 – Current]

Regular annual professional development programs for authorized persons to perform energy audits and energy certification of buildings and energy audits of public lighting system

Faculty of Civil Engineering and Architecture Osijek

City: Osijek | **Country:** Croatia |

[01/02/2016 – 25/04/2016]

Pedagogical-psychological and didactic-methodical education

Faculty of Teacher Education Osijek

City: Osijek | **Country:** Croatia |

[12/10/2015 – 22/10/2015]

Programme for Authorized persons to perform energy audits and energy certification of buildings with complex technical systems

Faculty of Civil Engineering Osijek

City: Osijek | **Country:** Croatia |

[25/04/2015 – 07/05/2015]

Programme for Authorized persons to perform energy audits and energy certification of buildings with simple technical systems

Faculty of Civil Engineering Osijek

City: Osijek | **Country:** Croatia |

[10/2012 – 09/2014]

Master of Civil/Structural Engineering (mag.ing.aedif.)

Faculty of Civil Engineering, University of Josip Juraj Strossmayer in Osijek

City: Osijek | **Country:** Croatia |

Diploma Thesis "Infilled frames numerical behaviour models", mentor prof. Ivica Guljaš, PhD

[01/03/2014 – 01/07/2014]

Study visit (Erasmus program)

Slovak University of Technology in Bratislava

City: Bratislava | **Country:** Slovakia |

Attending the summer semester at Slovak Technical University in Bratislava

[15/07/2013 – 17/09/2013]

Student intern

HARTBEX Przedsiębiorstwo Budowlane Sp. z o.o

City: Rzeszów | **Country:** Poland |

Practice work on a Construction site

[10/2012 – 06/2013]

Demonstrator

Faculty of Civil Engineering

City: Osijek | **Country:** Croatia |

Demonstrator on course Structural analysis II

[10/2009 – 09/2012]

University Baccalaureus of Civil Engineering (univ.bacc.ing.aedif.)

Faculty of Civil Engineering, University of Josip Juraj Strossmayer in Osijek

City: Osijek | **Country:** Croatia |

Final paper "Analysis of the frame with multiple degree of indeterminacy for accidental actions", mentor prof. Silva Lozančić, PhD

[09/2005 – 05/2009]

General-education secondary school

I. gymnasium Osijek

City: Osijek | **Country:** Croatia |

LANGUAGE SKILLS

Mother tongue(s): Croatian

Other language(s):

English

LISTENING C1 READING C1 WRITING B2

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PROJECTS

Projects

Associate at Digital transformation of construction projects induced by synergy of optimization methods and bim with premise of more efficient and safer construction, Project number: BI-HR/23-24-024, 2023. 2025., Funded: Croatian Ministry of Science and Education; Slovenian Research And Innovation Agency.

Participant of project *EYES HEARTS HANDS Urban Revolution (EHHUR)*, Programme Horizon Europe Framework Programme (HORIZON) Call Support the deployment of lighthouse demonstrators for the New European Bauhaus initiative in the context of Horizon Europe missions (HORIZON-MISS-2021-NEB-01), 2022.-2025.

Participant of project titled *Nabijena zemlja za modeliranje i normizaciju u potresno aktivnim područjima - RE-forMS (UIP-2020-02-73)*, 31.12.2020 - 31.12.2025., financed by the funds of the Croatian Science Foundation.

Participant of project *IRI2 Istraživanje i razvoj inovativnih drvnih zidnih obloga, pregradnih i nosivih zidova za održivu gradnju u poduzeću Spačva d.d.*, project leader Spačva d.d. financed by European Regional Development Fund, 01.09.2020. – 01.09.2023.

Participant of project titled *Greening the cities – Development and promotion of energy efficiency and sustainable urban environment in the cities of Croatia-Serbia cross-border region- GReENERGY*, Faculty of Sciences, University of Novi Sad, Interreg IPA Cross-border Cooperation Programme Croatia-Serbia 2014-2020.

Participant of project titled *Innovative simulation model for determination of heat losses in buildings due to infiltration*, 2017-2018, funded by Josip Juraj Strossmayer University of Osijek.

Participant of Croatian - Serbian scientific project titled *Development of predictive model for energy efficiency of buildings related to airtightness*, 2016 - 2017, financed by Ministry of Science, Education and Sport.

Participant of project titled *Evaluation of experimental Methods for the Determination of the heat transfer Coefficient in Steady state Conditions*, 2016 - 2020, financed by Faculty of Civil Engineering Osijek.

HONOURS AND AWARDS

[02/12/2022]

Award for the best doctoral thesis in the field of civil engineering Awarding institution: HSGI Hrvatski savez građevinskih inženjera

[2020]

International scholarships exchange of doctoral students at University of Warmia and Mazury in Olsztyn within the project PROM

International scholarship exchange of doctoral students and academic staff, financed by the National Agency for Academic Exchange

Student Fellowships

2010.-2014.: Student **Fellowships**

NETWORKS AND MEMBERSHIPS

Memberships

Croatian Association for Organization in Construction, since 2019.

Member of International student organization for student exchange - IAESTE Croatia (2012. – 2014.)

ORGANISATIONAL SKILLS

Organisational skills

Objectivity and Responsibility gained being a member of:

- the Organizing Committee of the 4th and 9th Congress of Young Researchers in the field of Civil Engineering and Related Science called Common Foundations.
- the Organizing Committee for the student project GFOS ISUCCES (International Summer Conference of Civil Engineering Students) held 2013. in Osijek on a Faculty of Civil Engineering (8.-12.7.2013.) and

COMMUNICATION AND INTERPERSONAL SKILLS

Communication and interpersonal skills

Great communication skills gained through volunteering in student association IAESTE (The International Association for Exchange of Students for Technical Experience) and through experience with teaching students for more than ten years.

JOB-RELATED SKILLS

Job-related skills

Tendency for further education, Tolerant, Patient, Objective

Teaching activities involve Energy Efficient Buildings, Technology of building construction, Construction

Management I and Construction Management II at the Faculty of Civil Engineering Osijek.

COMPETITIONS

Competitions

Participant in student competition "Case Study Competition 2013."

Scientific Personal Identification Number

347213*

* Registration number assigned to each person after the registration in the Register of the Ministry of Science, Education and Sports

PUBLICATIONS

Books

Domazetović, Mihaela ; Krstić, Hrvoje, Temperature-Based Approach for In Situ Evaluation of Thermal Transmittance of Building Walls // New Technologies in Building and Construction. Singapur: Springer, 2022. str. 21-36 . doi: 10.1007/978-981-19-1894-0_2

Krstić, Hrvoje ; Teni, Mihaela, Algorithm for constructional characteristics data cleansing of large-scale public buildings database // WIT transactions on the built environment, 175, 2, 2018. str. 213-224. doi: 10.2495/HPSM18

Krstić, Hrvoje ; Lukić, Ivan ; Teni, Mihaela ; Ištoka Otković, Irena ; Koški, Željko ; Radonjanin, Vlastimir ; Malešev, Mirjana, Utjecaj zrakopropusnosti na energetske učinkovitost zgrada // Izazovi u graditeljstvu 4. Zagreb: Hrvatski savez građevinskih inženjera (HSGI), 2017. str. 262-297

Journal papers

Krstić, Hrvoje ; Miličević, Ivana ; Markulak, Damir ; Domazetović, Mihaela, Thermal Performance Assessment of a Wall Made of Lightweight Concrete Blocks with Recycled Brick and Ground Polystyrene // Buildings, 11 (2021), 584; 1-17. doi: 10.3390/buildings11120584

Krstić, Hrvoje ; Domazetović, Mihaela, Co-heating test as a tool for reduction of energy performance gap in buildings // International journal of energy production and management, 5 (2020), 4; 328-341. doi: 10.2495/EQ-V5-N4-328-341

Teni, Mihaela ; Krstić, Hrvoje ; Kosiński, Piotr, Review and comparison of current experimental approaches for in-situ measurements of building walls thermal transmittance // Energy and buildings, 203 (2019), 109417, 17. doi: 10.1016/j.enbuild.2019.109417

Teni, Mihaela ; Čulo, Ksenija ; Krstić, Hrvoje, Renovation of Public Buildings towards nZEB: A Case Study of a Nursing Home // Buildings, 9 (2019), 7; 153, 14. doi: 10.3390/buildings9070153

Netinger Grubeša, Ivanka ; Teni, Mihaela ; Krstić, Hrvoje ; Vračević, Martina, Influence of Freeze/Thaw Cycles on Mechanical and Thermal Properties of Masonry Wall and Masonry Wall Materials // Energies (Basel), 12 (2019), 8; 1-11. doi: 10.3390/en12081464

Krstić, Hrvoje ; Koški, Željko ; Teni, Mihaela ; Čolaković, Branimir, Measurements and analysis of air tightness and indoor air quality in non-residential buildings // Annals of the Faculty engineering Hunedoara, 17 (2018), 1; 23-29

Teni, Mihaela; Grubišić, Marin; Guljaš, Ivica. *Simplified approaches for modeling infilled frames.* // The Electronic Journal of the Faculty of Civil Engineering Osijek e-GFOS. 9 (2014); 70-88.

Conference papers (2018-2023)

Kraus, Ivan; Domazetović, Mihaela; Perić, Ana, Experimental study on the thermal conductivity of Croatian traditional earthen architecture // AIP Conference Proceedings / Rodriguez-Tembleque L.; Correa E.; Aliabadi F. (ur.). Melville: American Institute of Physics Inc., 2023. str. 020035-1-020035-8. doi: 10.1063/5.0171288

Kraus, Ivan ; Perić, Ana ; Kaluđer, Jelena ; Kraus, Lucija ; Krolo, Paulina ; Domazetović, Mihaela ; Iljkić, Dario ; Varga, Ivana ; Brkanić Mihić, Ivana ; Grubišić, Marin, Rammed earth for modelling and standardization in seismically active areas: the RE-forMS project // Proceedings of the 3rd European Conference on Earthquake Engineering & Seismology. Bukurešt: Conspress, 2022. str. 1452-1461

Domazetović, Mihaela ; Krstić, Hrvoje ; Obradović, Dino, In-Situ Measurement and Evaluation of Thermal Transmittance Value by Means of Temperature-Based Method // Sustainability and Automation in Smart Constructions : Proceedings of the International Conference on Automation Innovation in Construction (CIAC-2019), / Rodrigues, Hugo; Gaspar, Florindo; Fernandes, Paulo et al. (ur.). Cham: Springer, 2021. str. 411-414. doi: 10.1007/978-3-030-35533-3_49

Bienvenido-Huertas, David ; Domazetović, Mihaela ; Moyano, Juan ; Rodríguez Jiménez, Carlos E., A review of the influence of the convective coefficient in the assessment of the U-value of façades with the infrared thermography method // Libro de actas CITE2020. 2020. str. 168-169

Bienvenido-Huertas, David ; Domazetović, Mihaela ; Rubio-Bellido, Carlos ; Oliveira, Miguel, Energy saving achieved with adaptive setpoint temperatures in the cities of the algarve (Portugal) // Libro de actas CITE2020. 2020. str. 109-110

Teni, Mihaela ; Krstić, Hrvoje, Analiza energetskeg svojstva zgrada - provođenje in situ mjerenja // Zajednički temelji 2019 - Sedmi skup mladih istraživača iz područja građevinarstva i srodnih tehničkih znanosti. Rijeka, 2019. str. 120-125

Krstić, Hrvoje ; Teni, Mihaela, Nearly Zero Energy Building Standard for Existing Buildings: Case Study of Residential Units // Digital Proceedings of the 14th Conference on Sustainable Development of Energy, Water and Environment Systems / Ban, Marko ; Duić, Neven ; Schneider, Daniel Rolph et al. (ur.). Zagreb: Fakultet strojarstva i brodogradnje Sveučilišta u Zagrebu, 2019. str. 1-12

Obradović, Dino ; Teni, Mihaela ; Međurečan, Livio, Problematika uporabnih dozvola za određene građevine – analiza odabranog područja // PROCEEDINGS OF 10th INTERNATIONAL NATURAL GAS, HEAT AND WATER CONFERENCE. Osijek: Strojarski fakultet Sveučilišta u Slavonskom Brodu, 2019. str. 210-218

Krstić, Hrvoje ; Teni, Mihaela, Analysis of energy performance and buildings characteristics obtained from Croatian energy management information system // International journal of structural and civil engineering research, 7, 3, 2018. str. 252-258. doi: 10.18178/ijscer.7.3.252-258

Obradović, Dino; Teni, Mihaela; Međurečan, Livio; Matijević, Maja; Forgić, Maja, Ozakonjenje nezakonito izgrađenih zgrada - nazire li se kraj? // PROCEEDINGS OF 9th INTERNATIONAL NATURAL GAS, HEAT AND WATER CONFERENCE. Osijek: Strojarski fakultet Sveučilišta u Slavonskom Brodu, 2018. str. 253-262

Conference papers (2015-2017)

Teni, Mihaela ; Dolaček-Alduk, Zlata, Pregled i analiza zakonske regulative u području toplinske zaštite u zgradarstvu // Zajednički temelji 2017. Zagreb, 2017. str. 21-28

Krstić, Hrvoje ; Radonjanin, Vlastimir ; Teni, Mihaela ; Lukić, Ivan, Development of predictive model for energy efficiency of buildings related to airtightness // International Symposium on researching and application of contemporary achievements in civil engineering in the field of materials and structures. Vršac: Društvo za ispitivanje i istraživanje materijala i konstrukcija Srbije, 2017. str. 505-514

Krstić, Hrvoje ; Teni, Mihaela ; Koški, Željko, Primjena infracrvene termografije u zgradarstvu // Proceedings of 8th International Natural Gas, Heat and Water Conference. Slavonski Brod: Strojarski fakultet Sveučilišta u Slavonskom Brodu, 2017. str. 401-410

Šandrk Nukić, Ivana ; Čandrlić Dankoš, Ivana ; Teni, Mihaela, A Comparative Analysis of the Croatian System of Energy Efficiency Measures // 13th International Conference Organization, Technology and Management in Construction Conference Proceedings. Zagreb: Hrvatska Udruga za Organizaciju Građenja ; Fakultet strojarstva i brodogradnje Sveučilišta u Zagrebu, 2017. str. 370-390

Krstić, Hrvoje ; Teni, Mihaela, Review of methods for buildings energy performance modelling // World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS 2017) / Drusa, Marian ; Marschalko, Marian; Yilmaz, Isik et al. (ur.). Bristol: Institute of Physics, 2017, 042049, 10. doi: 10.1088/1757-899X/245/4/042049

Krstić, Hrvoje ; Teni, Mihaela, Analiza osjetljivosti jednostavnog perioda povrata investicije na promjene zrakopropusnosti zgrada // Sabor hrvatskih graditelja 2016, EU i I Hrvatsko graditeljstvo - Zbornik Radova. Cavtat, 2016. str. 371-382

Teni, Mihaela ; Krstić, Hrvoje, Optimization of external walls thermal insulation technologies considering costs and time of execution // International Scientific Conference People, Buildings and Environment 2016 (PBE2016) Conference proceedings, Vol. 4. Brno, 2016. str. 99-108

Teni, Mihaela, Primjena eksperimentalne metode određivanja koeficijenta prolaska topline // Zajednički temelji - Zbornik sažetaka. Zagreb: Udruga hrvatskih građevinskih fakulteta, 2015. str. 59-61

Krstić, Hrvoje ; Teni, Mihaela ; Šandrk Nukić, Ivana, Sensitivity analysis of cost-effective recommendations for improving building energy efficiency // 12th International conference organization, technology and management in construction (OTMC 2015) : conference proceedings. Zagreb: Hrvatska Udruga za Organizaciju Građenja ; Fakultet strojarstva i brodogradnje Sveučilišta u Zagrebu, 2015. str. 434-442