

A report of the “Civil Engineering, Infrastructure and Environment Conference – UBT”

28/10/2023

At the *Civil Engineering, Infrastructure and Environment Conference – UBT* many researchers gathered where they discussed and presented topics related to the field of engineering, infrastructure and environment.

The event of this conference included presentations on various topics of civil engineering and construction, including studies on various structures, the use of sustainable materials, wastewater management and drinking water assets, digital technologies, wireless energy, urbanism and the impact of information on investment in residential property.

First session

Chair: Muhamet Ahmeti

Co – Chair: Bruno Dal Lago

- "On the assessment of aeolian vibrations of damped electrical conductors" – Francesco Foti, Stefano Corazza, Luca Martinelli;
- "Digitizing Heritage: A BIM-Based Approach to Preserving the "Prishtina District Energy Facility's Chimney Stack" -Feti Selmani, Driton Ibrahimij;
- "Dynamics of simply supported beam members subject to vertical seismic acceleration" – Bruno Dal, Lago Francesco, Foti Luca Capacci;
- "A parametric study for the structural assessment of multi-ring masonry arches considering influencing factors" – Bledian Nela, Marco Pingaro, Patrizia Trovalusci;
- "IC–CEIE, 2023 Strengthening of existing structures – Case study 'Hotel on Pashko Vasa Street N51, Prishtina'" – Egzon Sinanovic, Arsim Rapuca.

Second session

Chair: Agnieszka Jedrzejewska

Co – Chair: Feti Selmani

- "Integrating Rubber Additives from End-Of-Life Tyres into Concrete: A Circular Approach to Sustainable Building Materials", Girts Kolendo, Aleksandrs Korjakins, Gendijs Sahmenko, Diāna Bajāre;
- "Compressive Strength vs Tensile Splitting Strength at 2 and 28 days – an experimental comparative study" – Feti Selmani, Butrint Kryeziu, Driton R. Kryeziu;
- "Geopolymer Binder for the Production of Sustainable Alternative Building Materials"- Laura Vitola, Diana Bajare;
- "Mimicking Nature: Mini Vascular Nighs for Self-healing Lime-based Mortars", Cristina De Nardi, Diane Gardner, Antony Jefferson;
- "Assessment of the geometric potential of the rubber tree fruit endocarp as a reinforcing element in cement-based matrices" – Fernanda Carolina, Resende Saulo, Rocha Ferreira;
- "Effect of the rubber tire ash and recycled concrete fines in concrete" – Sofi A, Praveen Nagarajan;

- "The use of thermal power plant ash as an additive in cement production" – Ibush Luzha.

Third session

Chair: Linda Mezule

Co– Chair: Visar Hoxha

- "Technologies for sewage sludge management"- Linda Mezule;
- "Hydraulic analysis of the Pristina covered river under current conditions", Skender Bublaku, Eron Mekolli.
- "Water Utility Asset Management the Case of the "Prishtina Regional Water Company J.S.C" – Ilir Avdullahu, Andrin Kerpaci;
- "Digital Technology Impact on Sustainable Development is focus on Research and Innovation in Engineering Enterprises" – Ylber Limani, Visar Krelani, Blertë Retkoceri, Jessica Hasa.
- "The Dynamic Wireless Power Transfer Project: The Experimental Development of an Innovative Technology Tows the Decarbonization of Transportation Systems"- Rosalba Simeone, Antonio Montepara;
- "Groundwater flooding-Case study Republic of Kosovo" – Hazir S. Çadraku;
- "Utilizing Freshwater Cooling Injection for Mitigating Saltwater Intrusion and Enhancing Sustainable Groundwater Management" – Alban Kuriqi.
- "Improving the Durability Properties of Concrete by Using Sustainable Materials" – Nora AL-Anssari Abbas ALAmeeri;
- "Evaluation of the oxidation process of steel fibers in the presence of a potato dextrose and calcium chloride solution for the self-healing of cementitious matrices" – Nahúm Gamalier, Cayo Chileno, Gabrielle Avelar, Silva;
- "Assesment of Bicycle Sharing Programs from a User Perspective: KAYBIS" – Hatice Göçmen, Demir Y.Kağan Demir, Anıl Uruç
- "Splitting Tensile Strength Prediction Using Machine Learning Based – Optimization Algorithms" – Lukesh Parida;
- "Bio aggregates development: Phase change material incorporation in wood particles porosity for buildings Experimental Study of Hysteretic steel damper for energy dissipation capacity" – Leonardo Seibert, Kuhn Fabricio, Resende Fontenelle, Tulio Caetano, Guimaraes, Ferit Gashi, Francesco Petrini;
- "Leaching properties of fly ash from Duvha power station in South Africa"- Jabulani Matsimbe, Megersa Dinka, David Olukanni, David Olukanni;
- "The Effect of Nano-Alumina on the Performance of Self-Compacting Geopolymer Concrete Reinforced with Micro-Steel Fibers"- Eman Hasan, Raheem, Haider M.Owai;

Fourth session

Chair: Besa Jagxhiu

Co – Chair: Kliton Bylykbashi

- Identifying the Land Use Land Cover (LULC) changes in Pristina, (Kosovo) using "Machine Learning" and "Remote Sensing" techniques"- Edon Maliqi, Lulzim Hajdini.
- "The advantages of designing residential buildings are the minimum story height allotted by standards"- Ragip Behrami, Drilon Elezaj, Ermal Osaj, Ilir Hetemi, Arton Qorri;
- "The new EPBD directive and the situation of green houses in Kosovo. A case study." - Kliton Bylykbashi, Besa Veseli, Visar Krelani;

- "The Role of Information in Residential Property Investment Decisions: A Quantitative Analysis in Kosovo" – , Visar Hoxha, Perihan Ymeri, Ustaibo.
- "The Use of Public Space for Vehicle Parking Case Study – Ferizaj" – Bekim Selimi, Beni Kizolli
- "Audit of Road Safety Elements in the City of Pristina" - Jessica Hasa, NOL Dedaj.
- "Regeneration of The Railway Line In Kosovo: Case Study Kosovo-Pristina-Podujeva And Prizren-Xërxë" -Beni Kizolli;
- "Disentangling the effect of types of regulatory Interventions on Housing Prices: A Case Study of Kosovo and Slovenia" – Visar Hoxha.
- "Natural Radioactivity in Raë and Building Materials in Kosovo and Albania" – Mevlan Qaflesh.
- "Machine Learning Algorithms for Predicting the Strength of Concrete by Incorporating Rice Husk Ash" – Lukesh Parida, Sumedha Moharana, Sourav Kumar Giri;
- "Physical and mechanical characterization of gypsum matrix bio-composite" – Laércio Mesquita, Júnior, Nahúm Gamalier Cayo, Chileno, Gabriele Melo de Andrade;
- "Comparative study of the mineralogical phase composition and particle morphology of fly ash and phosphogypsum" – Jabulani Matsimbe, Megersa Dinka;
- "Challenges Encountered in OBD2 Data for Driving Cycle" – Yusuf Kagan, Demir, Flamur Salihu; Experimental evaluation of damage and stress rate in concrete during compression test using ultrasonic investigation" – Bachir Kebaili, Mohammed, Benzerara;
- "Coffee Husk Biomass: A Sustainable Solution for Eco-Friendly Bioconcrete Enhanced Thermal Insulation"- Jacinta Veloso de Carvalho, Gabriele Melo de Andrade;
- "Assessing the influence of cellulosic pulp replacement eith polypropylene on cement matrix properties" – Ianca Oliveira, Borges.
- "Disentangling the effect of types of regulatory Interventions on Housing Prices: A Case Study of Kosovo and Slovenia" – Visar Hoxha.

Fifth session

Chair: Hazir Cadraku

Co– Chair: Hysen Ahmeti

- "Indoor air quality impacts into life cycle assessments of buildings and building" – Afrim Sylja;
- "The Neë Nzeb Homes Set By Europe And A Case Study For Kosovo" – Kliton Bylykbashi;
- "Comparative Analysis of the Impact of Building Regulations on Housing Prices: A Study of Kosovo and Slovenia"- Visar Hoxha;
- "Comparison of methods in calculating the bearing capacity of the foundation" – Hysen Ahmeti;
- "The Utilization of Recycled Asphalt as An Environmental Responsibility" – Muhamet Ahmet, Beni Kizolli;
- "Design and Environmental impact of office buildings made by steel and timber" – Bekim Tolaj, Shkumbin Hyseni, Visar Krelani, Bruno Dal Lago.

Here come some pictures of this successful event!





