



RIGA TECHNICAL  
UNIVERSITY

65th International Scientific Conference  
of Riga Technical University

Friday,  
11 October

RTU Institute  
of Architecture  
and Design,  
Room 115 and 116,  
Ķīpsalas street 6, Riga

PROGRAMME

# Architecture and Urban Planning

09.00 REGISTRATION

09.30 OPENING WITH WELCOME ADDRESSES

## SESSION 1 09.30–11.00, ROOM 115

### TOWARDS SUSTAINABLE URBAN MOBILITY: SEARCHING FOR THE 15-MINUTE CITY MODEL IN LARGE HOUSING ESTATES

Sandra Treija, Alisa Koroļova, Uģis Bratuškis, Edgars Bondars, Undīne Ģemze, Ilze Lukstiņa, Riga Technical University, Latvia

### INVISIBLE INHERITABLE URBAN BIOMIMICRY AND HOW TO RE-DISCOVER AND EVALUATE IT

Kestutis Zaleckis, Gediminas Viliūnas, Vilnius Academy of Art  
Indre Grazuleviciute Vileniske, Kaunas University of Technology, Lithuania

### DESIGNATION OF CREATIVE SYNTAX AS A TOOL FOR REVITALIZING DOWNTOWN AREA IN SPATIAL AND SOCIO-ECONOMIC ASPECTS

Dominika Pazder, Poznan University of Technology, Poland

### YOUNG SÁMI'S WELLBEING AND COMPETING CLAIMS ON LAND USE AND NATURE

Anu Soikkeli, University of Oulu, Finland  
Ketil Lenert Hansen, The Arctic University of Norway

### DISCUSSION

11.00–11.30 COFFEE BREAK

## SESSION 2 POSTERS 11.30–13.00, ATRIUM

### EVOLUTION IN LATVIAN CONTEMPORARY ARCHITECTURE: THE LATVIAN ARCHITECTURE AWARD WORKS ANALYSIS

Chi-Hui Chen, National Taiwan University of Science and Technology, Taiwan  
Uģis Bratuškis, Sandra Treija, Riga Technical University, Latvia

### ASSESSMENT OF THE QUALITY OF MUNICIPAL SPATIAL PLANS AND THEIR AMENDMENTS IN LATVIA

Mārtiņš Auders, Māra Liepa-Zemeša, Baiba Vērpe, Riga Technical University  
Karīna Jansone, Riga City Council, Latvia

### CYCLING PLANNING IN DAUGAVPILS: INFRASTRUCTURE INTEGRATION

Antra Viļuma, Sandra Treija, Riga Technical University, Latvia

### TRANSPORT POVERTY IN RURAL AREAS: THE CASE OF REZEKNE COUNTY

Sandra Treija, Antra Viļuma, Riga Technical University, Latvia

### SYSTEMATIZATION OF THE RESORT OBJECTS: JŪRMALA CASE

Baiba Vērpe, Riga Technical University, Latvia

### FROM "SKANSEN" TO "SHANGHAI": EMBODIMENT AND PERSPECTIVES OF CULTURAL-HISTORICAL IDENTITY IN ŠNIPIŠKĒS, VILNIUS

Agnė Gabrėnienė, Vilnius Gediminas Technical University, Lithuania

### LOST IN A CITY: A CHILD'S PERSPECTIVE OF KAUNAS DURING THE INTERWAR PERIOD THROUGH THE SITUATIONIST APPROACH

Egle Januskiene, Jurate Kamicaityte, Indre Grazuleviciute Vileniske, Kaunas University of Technology, Lithuania

### ENVIRONMENTAL OBJECTS CONTEXT IN PUBLIC OUTDOOR SPACE

Una Īle, Aija Ziemeļniece, Ilze Stokmane, Latvia University of Life Sciences and Technologies

### LANDSCAPE URBANISM RESEARCH IN THE SOVIET LATVIA

Indra Purs, Latvia University of Life Sciences and Technologies

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**INDICATORS OF ARCHITECTURAL DRAWING DEVELOPMENT DURING THE STUDY PERIOD 2019–2024**

Andra Ulme, Elīna Elere, *Riga Technical University, Latvia*

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**SUSTAINABLE USE OF SCENOGRAPHIC ARTISTIC EXPRESSION IN URBAN SPACE AND PLANNING**

Uģis Bērziņš, Andra Ulme, Uģis Bratuškis, *Riga Technical University, Latvia*

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**DISCUSSION**

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13.00–14.00 **COFFEE BREAK**

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**SESSION 3.1**  
**14.00–15.30, DIGITAL TOOLS, ROOM 115**

**DIGITAL TECHNOLOGIES AND IT PLATFORMS FOR SEISMIC RISK ASSESSMENT AND MITIGATION OF CULTURAL HERITAGE**

Antonella Versaci, Luca Renato Fauzia, Michele Russo, *Kore University of Enna, Italy*

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**3D SURVEY FOR KNOWLEDGE AND RESTORATION OF REINFORCED CONCRETE INFRASTRUCTURES: THE NEMBRO ARCH BRIDGE (BERGAMO)**

Alessio Cardaci, Pietro Azzola, *University of Bergamo, Italy*

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**3D LASER SCANNING IN OLD TBILISI SUPERBLOCKS MULTIDISCIPLINARY INVESTIGATION AND CONCEPT DEVELOPMENT**

Nino Chachava, Nikoloz Lekveishvili, *Georgian Technical University, Georgia*

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**ADDRESSING PARAMETERS FOR GENERATIVE SPATIAL DESIGN**

Jonas Zukas, Lukas Misiunas, *Vilnius Gediminas Technical University, Lithuania*

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**DISCUSSION**

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**SESSION 3.2**  
**14.00–15.30, URBAN PLANNING, ROOM 116**

**RESIDENTS' SENSE OF THE PLACE IN THE CENTRAL PART OF KAUNAS CITY IN RELATION TO TANGIBLE CULTURAL HERITAGE**

Aušra Mlinkauskienė, Kęstutis Zaleckis, Ingrida Povilaitienė, Marius Ivaškevičius, Arnas Džiaugys, *Kaunas University of Technology, Lithuania*

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**A LEAP INTO THE FUTURE. TRANSFLUVIAL URBAN EXTENSIONS IN POST-WAR CENTRAL AND SOUTHEASTERN EUROPE**

Krzysztof Grochal, *Cracow University of Technology, Poland*

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**HOW MUCH TOD ARE THE SETTLEMENT UNITS IN THE POZNAŃ METROPOLITAN AREA?**

Bartosz Kazmierczak, *Poznan University of Technology, Poland*

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**LITHUANIAN CITIES AND THE ISSUES OF PREVENTION OF CLIMATE CHANGE AND OTHER POTENTIAL THREATS**

Evaldas Ramanauskas, Arūnas Bukantis, Liucijus Dringelis, Giedrius Kaveckis, Gintė Jonkutė-Vilkė, *Kaunas University of Technology, Lithuania*

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**DISCUSSION**

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15.30–16.00 **OPENING OF THE STUDENT EXHIBITION "ALVAR AALTO SYMPOSIUM 2024"**

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**SESSION 4.1**  
**16.00–17.30, HERITAGE, ROOM 115**

**EARLY 20TH CENTURY INDUSTRIAL HERITAGE OF RIGA**

Anita Anteniške, *Riga Technical University, Latvia*

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**STANDARDIZATION PRACTICES IN LITHUANIAN PUBLIC ARCHITECTURE DURING THE 1920s AND 1930s: THE DEVELOPMENT OF STANDARD DESIGNS**

Evaldas Vilkončius, *Kaunas University of Technology, Lithuania*

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**RETHINKING PREFABRICATED CONSTRUCTION SYSTEMS FOR MASS HOUSING: THE CASE STUDY OF "IMS ŽEŽELJ" SYSTEM**

Marko Gavrilović, Eva Vaništa Lazarević, Jelena Marić, *University of Belgrade, Serbia*

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**PROBLEMS OF HERITAGE PROTECTION OF HISTORICAL SETTLEMENTS IN BULGARIA IN THE SECOND HALF OF XXth CENTURY: THE CASE STUDY OF THE VILLAGE OF ARBANASSI NEAR VELIKO TARNOVO**

Radosveta Kirova-Delcheva, *University of Structural Engineering & Architecture, Sofia, Bulgaria*

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**DISCUSSION**

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**SESSION 4.2**  
**16.00–17.30, SPATIAL ENVIRONMENT QUALITY, ROOM 116**

**THE PROBLEM OF CONTROLLING ARCHITECTURAL EXPRESSION: PURSUIT FOR VISUAL  
UNITY, MUTUAL COHERENCE, AVOIDANCE OF MONOTONY AND ADJACENT HARMONY  
IN SUBURBAN AREAS**

*Vytautas Baltus, Kaunas University of Technology, Lithuania*

**SUSTAINABILITY AESTHETICS CREATION AND PERCEPTION BY THE EMERGING  
GENERATION OF DESIGNERS: QUALITATIVE RESEARCH METHODOLOGY**

*Indraja Raudonikytė, Kaunas University of Technology, Lithuania*

**ELABORATION OF URBAN QUALITY ASSESSMENT METHODOLOGY FOR RIGA  
AND SMALL-TOWN NEIGHBORHOODS OF THE RIGA REGION**

*Pēteris Šķiņķis, Inga Pērkone, Arnolds Timofejevs, University of Latvia*

**DISCUSSION**

**17.30 FINAL REMARKS. CLOSING OF THE CONFERENCE**