

# INNOVATIVE (ECO-) TECHNOLOGY, ENTREPRENEURSHIP AND REGIONAL DEVELOPMENT

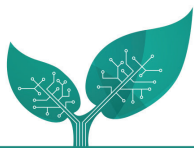
7<sup>th</sup> International Conference

## INNOVATIVE (ECO-)TECHNOLOGY, ENTREPRENEURSHIP AND REGIONAL DEVELOPMENT

October 12, 2021

**KAUNAS**  
University of  
Applied Sciences





# INNOVATIVE (ECO-) TECHNOLOGY, ENTREPRENEURSHIP AND REGIONAL DEVELOPMENT

7<sup>th</sup> International Conference

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### PROGRAMME

Chaired by dr. Giedrius Gecevičius, Viktorija Navickienė

9:00–10:00	<b>REGISTRATION</b>
10:00–10:20	<b>Welcoming Address and Opening of the Conference</b> <i>Paulius Baltrušaitis, Director of Kaunas University of Applied Sciences, Lithuania</i>
10:20–12:30	<b>PARALLEL SESSIONS</b>
12:30–13:30	LUNCH
13:30–14:00	<b>Manufacturing Innovations and Innovation Ecosystems for Start-ups</b> <i>Gintaras Vilda, Director of the Manufacturing Innovation Valley, Lithuania</i>
14:00–14:30	<b>How the combination of Circular Economy and Industry 4.0 can contribute towards achieving the Sustainable Development Goals</b> <i>Prof. dr. Žaneta Stasiškienė, Kaunas University of Technology, Lithuania</i>
14:30–15:00	<b>Artificial Intelligence in the Urban Environment: Smart Cities</b> <i>Aleksandro Montanha, University of Sevilla, Spain</i>
15:00–15:30	<b>Sustainable Innovation in the Global Airline Industry: Lessons Learned for Cities and Regions</b> <i>Prof. dr. Keith G. Debbage, The University of North Carolina at Greensboro, United States of America</i>
15:30–15:40	COFFEE BREAK
15:40–16:00	<b>FINAL SESSION</b>
18:00–19:00	Online Farewell Party



# INNOVATIVE (ECO-) TECHNOLOGY, ENTREPRENEURSHIP AND REGIONAL DEVELOPMENT

## INFORMATION TECHNOLOGY IN BUSINESS AND TOURISM DEVELOPMENT

Moderator – Wilfred Tchasse

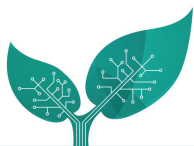
10:20–10:40	<b>Sustainable Economic Development: Necessity and Barriers</b> <i>dr. Akvilė Karaliūtė, Vytautas Magnus University, Lithuania</i>
10:40–11:00	<b>Sport Management Problems in Post-industrial Regions on the Example of Cities in the Silesia Province</b> <i>dr. Krzysztof Cieslikowski, The Jerzy Kukuczka Academy of Physical Education in Katowice, Poland</i>
11:00–11:20	<b>Circular Economy - Overview of Good Practice in Europe</b> <i>dr. Luis Ochoa Siguencia, The Jerzy Kukuczka Academy of Physical Education in Katowice, Poland</i> <i>dr. Zofia Gródek-Szostak, Cracow University of Economics, Poland</i> <i>Renata Ochoa-Daderska, Institute of Research and Innovation in Education, Poland</i>
11:20–11:40	<b>Recovery of Tourism Industry: Domestic Tourism Development in Regions of Latvia under Conditions of Travel Restrictions, Induced by Pandemic</b> <i>dr. Jekaterina Voznuka, Baltic International Academy, Latvia</i>
11:40–12:00	<b>Industry 4.0 technologies. Business opportunities &amp; threats in the shadow of the advent of industry 5.0</b> <i>dr. Andreas Karaoulanis, Kaunas University of Applied Sciences, Lithuania</i>
12:00–12:20	<b>The Services Complex offered using ICT technologies in Sustainable Tourism Development</b> <i>Laura Aidukienė, Kaunas University of Applied Sciences, Lithuania</i>
12:20–12:30	<b>Discussions</b>



## AGRO-INNOVATIONS AND LANDSCAPE ISSUES

Moderator – dr. Donatas Rekus

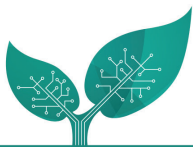
10:20–10:40	<b>Changes in Crops Structure in Lithuanian Municipalities and Their Threats</b> <i>dr. Daiva Makutėnienė, Vytautas Magnus University, Kaunas University of Applied Sciences, Lithuania</i> <i>dr. Valdemaras Makutėnas, Kaunas University of Applied Sciences, Lithuania</i>
10:40–11:00	<b>Effect of Agrobiological Additives on Sustainable Water Use in Agriculture / liet. Agrobiologinių priedų įtaka tausiam vandens naudojimui žemės ūkyje</b> <i>Jurgita Babilienė, dr. Ernesta Liniauskienė, Gitana Vyčenė, dr. Vilda Grybauskienė, Kaunas Forestry and Environmental Engineering University of Applied Sciences, Lithuania</i>
11:00–11:20	<b>Frequency of Microscopic Fungi in the Upper Layer of Mineral Soil of Native and Alien Coniferous Tree Stands</b> <i>dr. Nijolė Maršalkienė, Vytautas Magnus University, Lithuania</i> <i>Maris Senkova, University of Latvia, Microbial Strain Collection of Latvia</i>
11:20–11:40	<b>Investigation the Damage Caused by Spanish Slug (<i>ARION LUSITANICUS MABILLE</i>)</b> <i>Donatas Klimavičius, Kaunas University of Applied Sciences, Lithuania</i>
11:40–12:00	<b>Factors Influencing the Development of Entrepreneurship on Farmer's Farms</b> <i>dr. Jurgita Zaleckiene, Kaunas University of Applied Sciences, Lithuania</i> <i>Meida Gaižauskaitė, Vytautas Magnus University, Lithuania</i>
12:00–12:20	<b>Assessment of Green Plantations Condition in the Environment of the Faculty of Technologies at Kaunas University of Applied Sciences</b> <i>Irena Tulabienė, Kaunas University of Applied Sciences, Lithuania</i>
12:20–12:30	<b>Discussions</b>



## FOOD TECHNOLOGIES AND CONSUMPTION TENDENCIES

Moderator – dr. Ernesta Trečiokienė

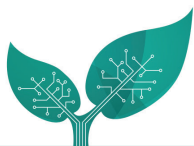
10:20–10:40	<b>Acceptability of Fruit Pastilles for Consumers and Comparison of their Energy Value</b> <i>dr. Ingrida Kraujutienė, Kaunas University of Applied Sciences, Lithuania</i> <i>Annemie Froyen, Sem Hansen, Leuven Limburg University, Belgium</i>
10:40–11:00	<b>Effect of Milk Powder on the Technological, Rheological and Sensory Properties of Yoghurt</b> <i>dr. Ernesta Trečiokienė, Kaunas University of Applied Sciences, Lithuania</i>
11:00–11:20	<b>Applying TRIZ-based Method to Improve Creativity in Molecular Gastronomy</b> <i>dr. Diana Barragan Ferrer, dr. Jesus Manuel Barragan Ferrer, Kaunas University of Applied Sciences, Lithuania</i>
11:20–11:40	<b>Vegetable Powder as a Natural Source of Nitrite in the Production of Cold Smoked Sausages</b> <i>Irina Koscelkovskienė, Kaunas University of Applied Sciences, Lithuania</i>
11:40–12:00	<b>Lactobacillus Probiotics Effect on Blood Lipids Profile</b> <i>Inga Pupelienė, Ilona Šostakienė, dr. Sandrija Čapkauskienė, Kaunas University of Applied Sciences, Lithuania</i>
12:00–12:20	<b>Prevention of Food Waste in the Gastronomic Sector</b> <i>Nijolė Vasiliauskienė, Kaunas University of Applied Sciences, Lithuania</i>
12:20–12:30	<b>Discussions</b>



## **INFORMATION TECHNOLOGIES IN MATHEMATICS (session in Lithuanian)**

Moderator – dr. Zita Baužienė

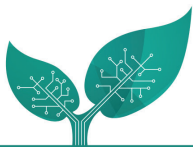
10:20–10:40	<b>The Importance of Mathematics in Engineering Sciences / liet. Matematikos dalyko svarba inžinerijos moksluose</b> <i>dr. Audronė Rimkevičienė, Šiauliai State College, Lithuania</i>
10:40–11:00	<b>Peculiarities of distance teaching of Mathematics at Kaunas University of Applied Sciences / liet. Nuotolinio matematikos mokymo ypatumai Kauno kolegijoje</b> <i>Milda Ilčiukienė, Kaunas University of Applied Sciences, Lithuania</i>
11:00–11:20	<b>IT competencies of Students / liet. Studentų IT kompetencijos</b> <i>dr. Vilma Morkūnienė, Kaunas University of Applied Sciences, Lithuania</i>
11:20–11:40	<b>Quality Assessment of Kaunas University of Applied Sciences study program “PROGRAM SYSTEMS” from the Point of View of Students / liet. Kauno kolegijos Programų Sistemos studijų programos kokybės vertinimas studentų požiūriu</b> <i>dr. Aušra Žvironienė, Gintarė Jurkševičiūtė, Kaunas University of Technology, Kaunas University of Applied Sciences, Lithuania</i>
11:40–12:00	<b>Application of Information Technologies in the Teaching of Mathematics in Engineering Studies / liet. Informacinių technologijų taikymas mokant matematikos inžinerinėse studijose</b> <i>Alma Paukštienė, Birutė Ragalytė, Panevėžio kolegija/ University of Applied Sciences, Lithuania</i>
12:00–12:20	<b>The premise of empowerment: mathematical logic or logic and emotions, or maybe technology? / liet. Įsiveiklinimo premisa: matematinė logika ar logika ir emocijos, o gal technologijos?</b> <i>dr. Zita Baužienė, Janina Morkūnienė, Kaunas University of Applied Sciences, Lithuania</i>
12:20–12:30	<b>Discussions</b>



## IT SOLUTIONS FOR SUSTAINABLE DEVELOPMENT

Moderator – dr. Vidmantas Rimavičius

10:20–10:40	<b>Smart Contracts and ICO in Ethereum Blockchain</b> <i>Aušrys Kilčiauskas, dr. Eligijus Sakalauskas, Kaunas University of Applied Sciences, Lithuania</i>
10:40–11:00	<b>Drone Stadium Interactive System</b> <i>dr. Vidmantas Rimavičius, Kaunas University of Applied Sciences, Lithuania</i>
11:00–11:20	<b>Technology for Capturing/Utilization of CO<sub>2</sub>, (SO<sub>x</sub>, NO<sub>x</sub>) from the Flue Gases</b> <i>dr. Rajden Skhvitaridze, dr. Teimuraz Cheishvili, dr. Teimuraz Kordzakhia, dr. Irakli Giorgadze, Akaki Skhvitaridze, Givi Loladze, Georgian Technical University, Georgia</i>
11:20–11:40	<b>Renewable Energy as a Chance for Energy Independence: a Case Study of Lithuania</b> <i>dr. Giedrius Gecevičius, Kaunas University of Applied Sciences, Lithuania</i>
11:40–12:00	<b>Waste Sorting in Lithuania: Is Innovation Needed?</b> <i>dr. Rasa Bartkute, Vitalija Skėruvienė, Kaunas University of Applied Sciences, Lithuania</i>
12:00–12:20	<b>Technological and Economic Aspects of Hyperspectral Imaging from an Unmanned Aerial Vehicle</b> <i>dr. Vytautė Juodkienė, Kaunas University of Applied Sciences, Lithuania</i>
12:20–12:30	<b>Discussions</b>



## MATERIALS ENGINEERING AND INNOVATIVE TECHNOLOGIES

Moderator – dr. Gintaras Keturakis

10:20–10:40	<b>Application of Supercapacitors and Materials used in Manufacturing</b> <i>dr. Žydrūnas Kavaliauskas, Vytautas Čapas, Kaunas University of Applied Sciences, Lithuania</i>
10:40–11:00	<b>Monitoring System of Operation Parameter for Supercapacitors</b> <i>dr. Žydrūnas Kavaliauskas, Domantas Škerba, Kaunas University of Applied Sciences, Lithuania</i>
11:00–11:20	<b>Investigation of TiCrN-Coated High Speed Steel Tools Wear During Medium Density Fibreboard Milling</b> <i>dr. Gintaras Keturakis, Kaunas University of Applied Sciences, Lithuania</i> <i>Deividas Kazlauskas, dr. Vytenis Jankauskas, Albinas Andriušis, Vytautas Magnus University, Lithuania</i>
11:20–11:40	<b>Technological Study of Softwood Bending Capacities</b> <i>Balys Gudas, Kaunas University of Applied Sciences, Lithuania</i>
11:40–12:00	<b>Expansion Capabilities of Specialized Embedded Electronic Modules of Industrial Programmable Logical Controllers</b> <i>dr. Giedrius Blažiūnas, Igor Šajev, Kaunas University of Applied Sciences, Lithuania</i>
12:00–12:20	<b>Feasibility Study of Computer Programs used in the Furniture and Wood Industry</b> <i>Žygimantas Kujalavičius, Kaunas University of Applied Sciences, Lithuania</i>
12:20–12:40	<b>Design of Innovative Furniture based on the Science of Biomimicry</b> <i>dr. Vilma Šipailaitė-Ramoškienė, Giedrė Gaigalaitė, Kaunas University of Applied Sciences, Lithuania</i>
12:40–12:50	<b>Discussions</b>