

# INDUSTRIAL engineering 2022

05.12



**Place:** Kaunas University of Technology, Santaka Valley, Baršausko str. 59, Kaunas

**Place Online:** Join Zoom Meeting  
<https://liedm.zoom.us/j/81200200750>

**Time:** 10:00 AM (UTC+02:00) Helsinki, Kyiv, Riga, Sofia, Tallinn, Vilnius

## PROGRAMME

<b>09:00 – 10:00</b>	<b>REGISTRATION</b>
<b>10:00 – 10:05</b>	Words of Welcome <i>Andrius Vilkauskas, Dean of Mechanical Engineering and Design Faculty</i>

### PLENARY SESSION

<b>10:05 – 10:15</b>	Autonomous Vehicle – Everything You Need to Know and Virtual Test Drives <i>Nalina Hamsaiyni Venkatesh (KTU)</i>
<b>10:15 – 10:35</b>	NanoAvionics – Space Geeks Building Small Satellites <i>Karolis Kaminskas (NanoAvionics)</i>
<b>10:35 – 10:55</b>	Drones – the future of ecological and sustainable agriculture <i>Gintaras Zavaraukas (UAB Agrodronas)</i>
<b>10:55 – 11:15</b>	Modern logistics centers: present and future trends <i>Vytautas Janilionis (TGW Lithuania)</i>
<b>11:15 – 11:25</b>	DIG-MAN three years of implementation: through challenges towards results <i>Kazimieras Juzėnas (KTU)</i>
<b>11:25 – 12:00</b>	<b>COFFEE BREAK</b>

### STUDENTS SESSION. STARTS AT 12:00 AM

<b>1.</b>	The Potential Metal Recovery from Cell Phone Waste in Egypt <i>Khaled Ibrahim, Jolita Kruopienė (KTU)</i>
<b>2.*</b>	The Impact of Electromobility on CO2 Reduction in Bus Transport of Metropolitan Area of São Paulo – Brazil <i>Gabriel Santos Rodrigues, João Gilberto Mendes Dos Reis (Universidade Paulista – UNIP, Brazil)</i>
<b>3.</b>	Application for Safe Utilization of E-waste <i>Mukul Sharma, Chandana Ravikumar (KTU)</i>
<b>4.*</b>	Social Distancing Index and Driver Behaviour Reduce the Congestion Index in São Paulo City During the Pandemic <i>Sivanilza Teixeira Machado, Douglas Augusto De Paula (University of São Paulo, Brazil)</i>
<b>5.</b>	NFC-enabled Product Packaging: Designing the Research Methodology for the User Experiment <i>Justina Karpavičė, Torben Tambo (Aarhus University, Denmark), Ingrida Venytė, Laura Gegeckienė (KTU)</i>
<b>6.*</b>	Numerical Remodelling Approach for Design Optimization Based on Material Behaviour of an Industrial Roller Support Arm Using FEM <i>Isaac Solomon (India), Kishorekanna Gunasekaran (KTU)</i>
<b>7.</b>	Strain-Dependent Electrical Resistance of Epoxy Composites Doped with Carbon Nanotubes <i>Hanna Maltanava, Sergey Poznyak, Gediminas Monastyreckis, Daiva Zeleniakienė (KTU)</i>
<b>13:15 – 13:30</b>	<b>BREAK</b>

8.	Damage Detection in Sandwich Structured Composites <i>Gabrielė Jovarauskaitė, Gediminas Monastyreckis, Daiva Zeleniakienė (KTU)</i>
9.*	Proposal of a Model for Animal Welfare Monitoring in Long-Distance Transport to the Slaughterhouse <i>Jonatas Santos De Souza, João Gilberto Mendes Dos Reis (Universidade Paulista – UNIP, Brazil)</i>
10.	Numerical Research of Convective Heat and Mass Transfer of Water Droplets in Heat Recovery from Flue Gas <i>Paulius Pustelninkas, Gintautas Miliauskas (KTU)</i>
11.*	Knitted Reinforced Self-Diagnostic Composites for Structural Health Monitoring <i>Adeel Abbas, Zeeshan Aza, Muhammad Sohaib Anas (National Textile University, Faisalabad, Pakistan), Sikander Abbas Basra, Norina Asfand (KTU)</i>
12	Life Cycle Assessment of Natural Gas Transmission Activities <i>Sigita Domarkaitė, Daina Kliaugaitė (KTU)</i>
13.*	Developing Indicator to Measure Efficiency in Coffee Supply Chains <i>Paula Ferreira Da Cruz Correia, João Gilberto Mendes Dos Reis (Universidade Paulista, São Paulo, Brazil)</i>
14	Review on Quasi-Static Piezoelectric Measurement of Cellular Ferroelectret Films <i>Chandana Ravikumar (KTU)</i>
15:00 – 15:15	<b>BREAK</b>

\* – online

## POSTER PRESENTATION. STARTS AT 15:15

1.	Plant Origin Food Packaging Priority End-Of-Life Treatment: Most Efficient Integration into Circular Economy <i>Zita Markevičiūtė, Visvaldas Varžinskas, Yagya Venkateshwaran Balasubramanian (KTU)</i>
2.	Review of Electrospun Materials from Natural Polymers: Collagen, Keratin and Gelatin <i>Evelina Brastavičiūtė, Erika Adomavičiūtė (KTU)</i>
3.	Release of Synthetic Microfiber During Domestic Washing: Impact of Consumer Washing Habits <i>Ugnė Gliudelytė, Virginija Daukantiene (KTU)</i>
4.	Analysis of Jacket Pockets Technological Properties <i>Akvilė Budrevičiūtė, Virginija Daukantiene (KTU)</i>
5.	Investigation of Screen-Printing Technology Application to Ensure Electrical properties of Textile <i>Emma Danjoux, Modesta Mitkutė, Jurgita Domskienė (KTU)</i>
6.	Comparable Analysis of Colours of Lithuanian Folk Bedspreads and Towels <i>Kalyanne Asselos-Bebin, Pauline Kuntz (University of Lille, France), Eglė Kumpikaitė (KTU)</i>
7.	Electrospun Bioactive Polyvinyl Butyral / Gelatin Coatings <i>Ugnė Zasčiurinskaitė, Joana Sinkevičiūtė (KTU), Milda Savickaitė (UAB Kulagenas), Akvilė Andziukevičiūtė-Jankūnienė (KTU)</i>
8.	Fabrication of Ethylene Vinyl Acetate and Wood Flour Waste Composites: Study of Physical and Mechanical Properties <i>Emilija Stankutė, Gerda Trifeldaitė, Kristina Žukienė (KTU)</i>
9.	Influence of Digital Printing on the Water Absorption Properties of Weft Knitted Fabrics <i>Ugnė Bukauskaitė, Ginta Laureckienė (KTU)</i>

<b>10.</b>	Investigation of the Emergence of Quality Defects during Plastic Injection Moulding <i>Viltė Subačiūtė, Regita Bendikienė (KTU)</i>
<b>11.</b>	Investigation of the Peculiarity of Creation of Cylindrical Design Elements for 3D Printed Heels <i>Rugilė Kemzūraitė, Raimonda Cvilikaitė, Edita Gelažienė, Daiva Milašienė (KTU)</i>
<b>12.</b>	Combined Application of Lean Manufacturing Systems and Industry 4.0 in a Manufacturing Companies <i>Karina Steponavičiūtė, Lina Kavaliauskienė (KTU)</i>
<b>13.</b>	Designing of Linen Fabrics for Clothing <i>Melanie Gourmand, Isalyne Boisgerault (University of Lille, France), Edgaras Arbataitis, Eglė Kumpikaitė (KTU)</i>
<b>14.</b>	Qualitative Challenges Facing the Hard Wood Processing, Using the 5 Axis Turning-Milling Center <i>Donatas Akūnis, Mykolas Vievesis, Virginija Gylienė (KTU)</i>
<b>15.</b>	Study on Additive Manufacturing Waste Recycling <i>Evelina Melinauskaitė, Tomas Kuncius (KTU)</i>
<b>16.</b>	The Investigation of Bending Rigidity of Textile Materials <i>Fausta Rutkauskaitė, Margarita Knystautaitė, Goda Butrimaitė, Eugenija Strazdienė (VIKO)</i>
<b>17.</b>	The Dynamic Behavior of a Fiber in a Bundle in the Presence of Dry Friction Forces <i>Sharof Shukhratov, Rimvydas Milašius (KTU)</i>
<b>16:30</b>	<b>END OF CONFERENCE</b>