



faculty of mechanical
engineering
and design

09/05/2024

INDUSTRIAL ENGINEERING

from Zero to Hero



Place – Santaka Valley, Baršausko str. 59, Kaunas

PROGRAMME

09:00 – 09:30	REGISTRATION
09:30 – 09:40	Words of Welcome <i>Rūta Rimašauskienė</i> Chairwoman of the Conference <i>Andrius Vilkauskas</i> , Researcher of Mechanical Engineering and Design Faculty

PLENARY SESSION. Hall 1

09:40 – 10:00	<i>Andrius Liškus</i> CEO / Design Engineer LABA7, from idea to market leader
10:00 – 10:20	<i>Valdas Grigaliūnas</i> Inosport / Chief Executive Officer Digitization in sports and rehabilitation: what does it take to win a gold?
10:20 – 10:40	<i>Indrė Senkutė</i> Stevila / Head of Purchasing. Member of #Stevila management team. Racer #STEVILA: successful business is You
10:40 – 11:00	<i>Asta Tumaitytė-Salling</i> Atelier Rue / Director Sustainability considerations in brand development and identity
11:00 – 11:20	<i>Marius Klimavičius</i> Founder & CEO/ Blackswan Space Making Satellites Autonomous
11:20 – 11:40	<i>Aurelijus Beleckis</i> Elinta Robotics / Director Is Lithuania far behind in the field of robotization? Overview and success stories
11:40 – 12:00	<i>Discussions</i>
12:00 – 13:00	COFFEE BREAK. POSTER PRESENTATION

SESSION 1. Hall 1. STARTS AT 13:00 (1:00 PM)

1	Development of Maintenance Optimization Method <i>Pranav Ramachandran, Kazimieras Juzėnas (KTU)</i>
2	A Review on Fabrication Methods and Mechanical Properties of Continuous Fiber Reinforced High-Performance Thermoplastic Composites <i>Muhammad Abuzar Khan (University of Engineering & Technology Peshawar Pakistan, Marius Rimařauskas (KTU))</i>
3	Model of a Dragonfly Aeshna Cyanea Wing <i>Kamilė Zurlytė, Rimvydas Gaidys (KTU)</i>
4	Mechanical Properties of Microcrystalline Cellulose-Filled Polylactic Acid Films <i>Ingrida Bernatonytė (KTU), Erika Adomavičiūtė (KTU), Jolanta Donelienė (Applied Research Institute for Prospective Technologies), Eglė Fataraitė-Urbonienė (KTU, Applied Research Institute for Prospective Technologies)</i>
5	Real-time Tracking System: A Need for Garment Companies <i>Silva Spahija, Albana Leti (Polytechnic University of Tirana)</i>
14:30 – 15:00	BREAK
6	Starch-based Films for Food Packaging with Additives: A Short Review <i>Dominyka Vaičiūtė, Laura Gegeckienė, Ingrida Venytė (KTU)</i>
7	Packaging of Fragile and Oddly-Shaped Products <i>Justė Bružaitė, Kęstutis Vaitasius (KTU)</i>
8	Environmental Monitoring using Piezoelectric PVDF Nanofiber-based Sensors: Challenges and Opportunities <i>Toma Stulgė (KTU)</i>
9	Investigation of LiBr/H ₂ O Heat Pump Operating Modes <i>Antanas Levickas (KTU)</i>
10	Research of Flutter Prediction Methods at Low Reynolds Numbers <i>Paulina Kilnaitė, Martynas Lendraitis (KTU)</i>
11	Analysis of Efficient Aircraft Maintenance Planning Solutions <i>Azad Ismayilov (KTU)</i>
16:00	POSTER PRESENTATION (Hall 1)
17:00	END OF THE CONFERENCE

SESSION 2. FASHION ENGINEERING – FUTURE TECHNOLOGIES. Hall 2. STARTS AT 13:00 (1:00 PM)

1	Stump socks: assortment and manufacturing methods Olena Yershova (Kyiv National University of Technologies and Design, Ukraine)
2	Embroidery in Ukrainian Traditional Shirts Tetiana Kutsyr (Ethnology Institute of the National Academy of Sciences of Ukraine)
14:30 – 15:00	BREAK
3	Raising Awareness of Sustainable Fashion Practices <i>Vykintė Trakšelytė, Kamilė Rentauskaitė, Daiva Mikučionienė</i>
4	Generative AI for Fashion Design Gabrielė Belkevičiūtė , Kristina Ancutienė
5	Textile Finishing and Microfiber Pollution: A Review Ugnė Gliudelytė , Virginija Daukantienė
6	Multifunctional Electronic Textiles for Wearable Sensing and Heating Mohammad Shak Sadi , Eglė Kumpikaitė
7	Investigation of Consumer's Attitude Towards Upcoming Regulations to EU Textile Sector Elīza Gaidule , Jurgita Domskienė
8	Investigation of Abrasion Resistance of Natural Cellulose Woven Fabrics Darshan Puttaswamy , Eglė Kumpikaitė, Stasė Petraitienė
16:00	POSTER PRESENTATION (Hall 1)
17:00	END OF THE CONFERENCE

POSTER PRESENTATION. Hall 1. STARTS AT 16:00 (4:00 PM)

1	Study About the Influence of Tool Geometry in Turning Process Alexandre Gouraud (University of Lorraine, Ecole nationale d'ingénieurs de Metz), Virginija Gyliene (KTU), Žygimantas Kujalavičius (Kauno Kolegija Higher Education Institution)
2	Biodiversity Loss and Fashion Karilė Mituzaitė , Indrė Spitrytė, Jovita Dargienė (Kauno Kolegija Higher Education Institution)
3	Enhancing the Use of Copper as a Secondary Raw Material in Textile Finishing Ainhoa Sanchez-Martínez (Universitat Politècnica de València), Enrique Año Montalva (Instituto Tecnológico de Producto Infantil), Saul Gonzalez-Blanquer (Estampados Prato), Francisco Bosch-Mossi (Instituto Tecnológico Metalmecánico), Jaime Gisbert-Paya (Universitat Politècnica de València)
4	Effects of Soil Moisture Content on Biodegradation of Textile Materials Ainhoa Sánchez-Martínez , Jaime Gisbert-Payá, Raquel Belda-Anaya, Marilés Bonet-Aracil (Universitat Politècnica de València)

5	Principles of 3D Scanning of Non-Standard Bodies and their Application in the Production of Custom-Made Garments <i>Karolina Butkutė, Jurgita Domskienė, Arūnas Kleiva, Donatas Akulovas (KTU)</i>
6	Study of Possibilities of Industrial Weaving Waste Modification with Copper-Containing Particles: A Review <i>Gabrielė Būtėnaitė, Daiva Milašienė (KTU)</i>
7	The Future of Modified Polymer Exchange Membranes to Enhance Green Hydrogen Gas Generation by Electrolysis <i>Relebohile Mokete, Frantisek Miksik, Roman Selyanchyn, Nobuo Takata, Kyaw Thu, Takahiko Miyazaki (Kyushu University)</i>
8	Case Study of FlexSim Application in the Efficiency Analysis of Garment Manufacturing Processes <i>Gabija Joneliūnaitė, Asanavičiūtė Kamilė, Paliulytė Aistė, Eugenija Strazdienė (Vilniaus kolegija Higher Education Institution)</i>
9	Exploring Galacto-oligosaccharides: A Novel and Sustainable Alternative for Gene Expression Induction in Escherichia coli <i>Jokūbas Daunoras, Renata Gudiukaitė (Institute of Biosciences, Life Sciences Center)</i>
10	BEMT-based Analytical-Numerical Performance Evaluation of Proprotors with Allowance for Large Inflow Angles <i>Carlos Sosa Henriquez, Martynas Lendraitis (KTU)</i>
11	Modelling of the Composite Heat Transfer of Sprayed Water in the Gas Flow from an Applied Technological Aspect <i>Paulius Pustelninkas, Gintautas Miliauskas, Monika Maziukienė (KTU)</i>
12	Investigation of the Waste Heat Recovery Potential of CO ₂ Refrigeration Systems <i>Jevgenijus Laurinavičius, Algimantas Balčius (KTU)</i>
13	Innovative Engineering Solutions for Water Crisis Using Underground Steel Reservoirs <i>Liudvikas Antanėlis, Ingrida Venytė (KTU)</i>
14	Validation of Geometric Cuts for Auxetic Fabrics <i>María Pérez-Ripoll (Universitat Politècnica de València), Rafaela Morales-Morales (EASD Valencia), David Mínguez-García, Jaime Gisbert-Paya (Universitat Politècnica de València)</i>
15	Structural Characterization of PVP/Iodine-Based Antibacterial Nanofibers for Biomedical Applications <i>Haleema Khanzada, Eglė Kumpikaitė (KTU)</i>