

# XIV International Conference

## TEXTILE SCIENCE & ECONOMY

25th OCTOBER 2024

Zrenjanin, Serbia



### PROGRAM OF THE CONFERENCE

9.30-10.00	<b>Registration at Technical Faculty Mihajlo Pupin“</b>
10.00-10.20	<b>Opening ceremony</b>
10.20-10.40	<b>Mirjana Kovačević</b> <i>Chamber of Commerce Serbia</i> <b>The labor shortage in the textile industry: problems, challenges and potential solutions, dual model of education</b>
10.40-11.00	<b>Sladjana Milojevic</b> <i>Fashion Apparel Cluster Serbia - FACTS</i> <b>Transformation of the fashion industry according to the Green Agenda: Current situation and key activities</b>
11.00-11.15	<b>Aleksandar Zhertovski</b> <i>Dell'orco &amp; Villani, Italy</i> <b>The importance of textile waste recycling and some of the possible solutions</b>
11.15-11.25	<b>Short break</b>
11.25-11.40	<b>Riccardo Cavalleri</b> <i>Emmebi Impianti, Italy</i> <b>Industrial air conditioning systems for textile production</b>
11.40-12.00	<b>Milan Zelovic</b> <i>Founder &amp; CEO PuzzleFit Ai, Serbia</i> <b>The use of AI in the economy - From the scene</b>
12.00-12.20	<b>Giacomo Niccolini</b> <i>Pattern Maker and Fashion Engineer Designer at Audaces Europe Srl, Italy</i> <b>AI in Fashion design</b>
12.20-12.35	<b>Ivana Šoštar</b> <i>Rigo, Slovenia</i> <b>Digitization in order to reduce textile waste and efficient and fast development of fashion collections</b>
12.35-13.15	<b>LUNCH</b>

	<b>Plenary session,</b> <b>Chairman Dr. Marija Pešić</b>
13.15-13.35	<b>Alessandra Spagnoli</b> <i>Politecnico di Milano, Italy</i> <b>Retail and sustainable service systems: a promising alliance for the fashion system. From theory to practice</b>
13.35-13.55	<b>Tatjana Spahiu</b> <i>Polytechnic University of Tirana, Albania</i> <b>Fashion products in the area of digital manufacturing – 3D Printing</b>
13.55-14.15	<b>Blaženka Brlobašić Šajatović, Irena Šabarić, Franka Karin</b> <i>University of Zagreb Faculty of Textile Technology, Croatia</i> <b>The contribution of digital technology in the field of clothing production from the aspect of ecology and the education system</b>

14.15-14.35	<p><b><u>Anselm Naake</u><sup>1</sup>, <u>Yordan Kyosev</u><sup>1</sup>, <u>Michelle Greenhouse</u><sup>2</sup>, <u>Christina Rapa</u><sup>3</sup>, <u>Giulietta Camarda</u><sup>4</sup>, <u>Nicholas Paganelli</u><sup>5</sup>, <u>Josh Scott</u><sup>6</sup>, <u>Esteban Garza</u><sup>7</sup></b>  <i>TUD Dresden University of Technology<sup>1</sup>, Germany, Target, USA<sup>2</sup>; W.L. Gore &amp; Associates, USA<sup>3</sup>; Champion/Hanes, USA<sup>4</sup>; Ralph Lauren, USA<sup>5</sup>; Old Navy, USA<sup>6</sup>; Kalypso, USA<sup>7</sup>;</i></p> <p><b>Introduction and Dissemination of a proposed standard Procedure for Testing and Organizing physical material properties of textile fabric</b></p>
14.35-14.45	<b>Short break</b>
	<b>Section 1</b>
	<b>Chairman, Dr. Ineta Nemesa</b>
14.45-14.55	<p><b><u>Yanshan Xie</u><sup>1</sup>, <u>An Liu</u><sup>2</sup>, <u>Qingxin Peng</u><sup>3</sup>, <u>Guoxiang Yuan</u><sup>4,5</sup></b>  <i><sup>1</sup> School of New Materials and Shoes &amp; Clothing Engineering, Liming Vocational University, Quanzhou; <sup>2</sup> School of Future Design, Beijing Normal University, Zhuhai, Guangdong, China; <sup>3</sup> School of Design, University of Leeds, UK; <sup>4</sup> World Textile University Alliance, Shanghai, China; <sup>5</sup> Susfuture, Hong Kong, China.</i></p> <p><b>Patchwork in Fashion: Comparative analysis of perceptions and preferences between fashion design students and general consumers in China</b></p>
14.55-15.05	<p><b><u>Niklas Schmidt</u>, <u>Sophie Herz</u>, <u>Prof. Yordan Kyosev</u></b>  <i>Chair of Development and Assembly of Textile Products, TU Dresden, Germany</i></p> <p><b>Development of an open format for the exchange of 3D garments between 3D product development software packages</b></p>
15.05-15.15	<p><b><u>Dragan Čočkalo</u>, <u>Mihalj Bakator</u>, <u>Milan Nikolić</u>, <u>Sanja Stanisavljev</u>, <u>Verica Gluvakov</u></b>  <i>University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Serbia</i></p> <p><b>Strategies for industry 5.0 adoption in traditional industries like textile</b></p>
15.15-15.25	<p><b><u>Noémi Ferencz</u>, <u>Márta Kisfaludy</u>, <u>Éva Hottó</u></b>  <i>Obuda University, Hungary</i></p> <p><b>Sustainability in a slow fashion collection</b></p>
15.25-15.35	<p><b><u>Annette Kölling</u></b>  <i>Hochschule Hannover, University of Applied Sciences and Arts, Germany</i></p> <p><b>Digital Deconstruction Project – exploring the possibilities of re-designing digital designs for more sustainability</b></p>
15.35-15.45	<p><b><u>Tadeja Penko</u>, <u>Andreja Rudolf</u></b>  <i>University of Maribor, Faculty of Mechanical Engineering, Slovenia</i></p> <p><b>Fashion Database: Fashion Requirements and Basic Design Elements</b></p>
15.45-15.55	<p><b><u>Maja Jankoska</u>, <u>Ruzica Stevkovska Stojanovska</u></b>  <i>University Ss. Cyril and Methodius in Skopje, Faculty of Technology and Metallurgy, North Macedonia</i></p> <p><b>The impact of 3D design and virtual simulation in garment creation s</b></p>
15.55-16.05	<p><b><u>Gökçe Sakmar</u><sup>1</sup>, <u>Murat Yıldırım</u><sup>1</sup>, <u>Gizem Özbek Çam</u><sup>1</sup>, <u>Ozan Avinc</u><sup>2</sup>, <u>Necip Atar</u><sup>3</sup></b>  <i><sup>1</sup> Zorluteks Textile Trade and Industry Inc, Türkiye; <sup>2</sup>Textile Engineering De, Engineering Faculty, Pamukkale University, Türkiye; <sup>3</sup>Chemical Engineering Department, Engineering Faculty, Pamukkale University, Türkiye</i></p> <p><b>The Harmful Effects of Noise Pollution in Urban Life and the Impact of Various Textile Structures on Sound Absorption</b></p>
16.05-16.15	<p><b><u>Azra Midžić</u>, <u>Dejla Ramić</u></b>  <i>Faculty of Technical Engineering of Bihać, Bosnia and Herzegovina</i></p> <p><b>Multifunctional and modular approaches in a sustainable collection of clothing items</b></p>
16.15-16.30	<b>Short break</b>
	<b>Section II, Chairman Dr. Nadiia Bukhonka</b>
16.30-16.40	<p><b><u>Tanita Behrendt</u>, <u>Elisabeth Eppinger</u></b>  <i>University of Applied Sciences and Economics Berlin, Germany  Technische Universität Berlin, Faculty V- Mechanical Engineering and Transport Systems, Berlin, Germany</i></p> <p><b>Contaminants in textile recycling – a look at common haberdashery and fiber blends found in T-shirts Research on seam performance properties of traditional and recycled single jersey fabrics</b></p>
16.40-16.50	<p><b><u>Liliia Chertenko</u><sup>1</sup>, <u>Tatjana Spahiu</u><sup>2</sup>, <u>Tymofii Lypskyi</u><sup>1</sup>, <u>Dariia Kaptiurova</u><sup>1</sup></b>  <i><sup>1</sup>Kyiv National University of Technologies and Design, Ukraine;  <sup>2</sup>Polytechnic University of Tirana, Albania</i></p> <p><b>Prospects for the use of additive technologies for the development of orthopedic footwear</b></p>

16.50-17.00	<b><u>Aminoddin Haji, Abolfazl Zare, Zahra Khaleghdadi</u></b> <i>Yazd University, Yazd, Iran</i>
	<b>Break Sustainable dyeing of cationized cotton with spirulina algae</b>
17.00-17.10	<b><u>Özlem KARAKAYA, Oktay PAMUK</u></b> <i>Ege University, Textile Engineering Department, İzmir, Turkey</i>
	<b>Research on seam performance properties of traditional and recycled single jersey fabrics</b>
17.10-17.20	<b><u>Nazife Korkmaz Memis, Sibel Kaplan</u></b> <i>Department of Textile Engineering, Süleyman Demirel University, Isparta, Türkiye</i>
	<b>Drying Temperature optimization of PVDF-ZNO Porous passive radiative cooling films</b>
17.20-17.30	<b><u>Sinem Birsen, Canan Sarıçam</u></b> <i>Istanbul Technical University, Türkiye</i>
	<b>Detection and Classification of Fabric With and Innovative Model and Perspective</b>
17.30-17.30	<b><u>Fatma Filiz Yildirim<sup>1</sup>, Ozan Avinc<sup>2</sup>, Perinur Koptur Tasan<sup>3</sup>, Sultan Aras Elibüyük<sup>3</sup>, Mustafa Cörekcioglu<sup>3</sup></u></b> <i><sup>1</sup>Department of Textile, Clothing, Footwear &amp; Leather, Shoe Design and Production Program, Acıpayam Vocational School, Pamukkale University, Acıpayam, Denizli, Türkiye; <sup>2</sup>Textile Engineering Department, Engineering Faculty, Pamukkale University, Denizli, Türkiye; <sup>3</sup>Ozanteks Tekstil San ve Tic A.S, Denizli, Türkiye</i>
	<b>A Glance to Various Rayon Fibers</b>
17.40-17.50	<b><u>Özgür Ceylan, Irmak Tas, Nesligül Kilinc, Emel Aydın, Alper Kizlitug, Özge Erol, Karın Zencefil</u></b> <i>Eskisehir Technical University, Turkey, Mavi Giyim Sanayi ve Ticaret A.Ş.</i>
	<b>Deconstructing logomania: A case study of MAVI</b>
17.50-18.00	<b><u>Fatma Filiz Yildirim<sup>1</sup>, Ozan Avinc<sup>2</sup>, Sultan Aras Elibüyük<sup>3</sup>, Perinur Koptur Tasan<sup>3</sup>, Mustafa Cörekcioglu<sup>3</sup></u></b> <i><sup>1</sup>Department of Textile, Clothing, Footwear &amp; Leather, Shoe Design and Production Program, Acıpayam Vocational School, Pamukkale University, Acıpayam, Denizli, Türkiye; <sup>2</sup>Textile Engineering Department, Engineering Faculty, Pamukkale University, Denizli, Türkiye; <sup>3</sup> Ozanteks Tekstil San ve Tic A.S, Denizli, Türkiye</i>
	<b>Recent Approaches in Cotton Production</b>
18.00-18.10	<b><u>Kerim Kılınç<sup>1</sup>, Deniz Savcı<sup>1</sup>, Nur Ceyda Uyanıktır<sup>2</sup>, Semih Oylar<sup>2</sup>, Keziban Kotanak Pişkin<sup>3</sup></u></b> <i>Polyteks Tekstil San. Araş. ve Eğt. A.Ş., Bursa (Türkiye) <sup>1</sup>; Martur Fompak International, Bursa (Türkiye) <sup>2</sup>; TOFAŞ Turkish Automotive Factory, Bursa (Türkiye) <sup>3</sup></i>
	<b>Production of environmentally friendly automotive seat fabrics and investigation according to automotive standards</b>

### Poster Session (18.00-19.00)

**Edit Csanák, Orsolya Nagy Szabó, András Koleszár**

*Óbuda University, Rejtő Sándor Faculty of Light Industry and Environmental Engineering, Product Design Institute, Budapest, Hungary*

**AI & Industry 4.0 supported fashion design – A case study of a sustainable denim collection**

**Emilija Toshiki**

*Ss. Cyril and Methodius University in Skopje, Faculty of Technology and Metallurgy, North Macedonia*

**Ink Solid – Tone Sublimation Print Quality**

**Eugenia Elena Riemschneider**

*West University, Faculty of Arts and Design, Timișoara, Romania*

**Sustainability in Fashion. Rediscovering Traditional Textile Techniques for a Sustainable Future**

**Marija Pesic, Milica Kolarov, Tatjana Lungulov, Dijamanta Salihi, Valentina Bozoki**

*University of Novi Sad, Technical faculty “Mihajlo Pupin”, Zrenjanin, Serbia*

**Investigation of dimensional stability of artificial pineapple leather**

**Kristina Vinčar, Dejla Ramić**

*Faculty of Technical Engineering, University of Bihać, Bosnia and Herzegovina*

**The influence of new romantics’ fashion and 80’s music on the creation of fashion collection for the 21st century**

**Ineta Nemeša, Nadiia Bukhonka, Marija Pešić, Valentina Bozoki**

*University of Novi Sad, Technical faculty “Mihajlo Pupin”, Zrenjanin, Serbia*

**Zero-waste clothing using fabric shirring technique**

**Nadija Bukhonka, Ineta Nemeša**

*University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia*

**STRATEGIES FOR WASTE REDUCTION FOR FLAT-KNITTED GARMENT: A STUDY ON PRODUCTION METHODS**

**Mihalj Bakator, Luka Đorđević, Borivoj Novaković, Stefan Ugrinov, Mića Đurđev, Velibor Premčevski**

*University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia*

**Improving manufacturing in textile industries with innovative collaboration tools**

**Stefan Ugrinov, Sanja Stanisavljev, Mihalj Bakator, Edit Terek Stojanović, Mila Kavalić, Verica Gluvakov, Dragana Kovač**

*University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia*

**Entrepreneurship in the textile industry and its role in driving sustainable supply chain practices**

**Verica Gluvakov, Mila Kavalić, Mihalj Bakator, Stefan Ugrinov, Snežana Mirković, Edit Terek Stojanović**

*University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia; BB Trade doo, Zrenjanin, Serbia*

**Overview of studies regarding sustainable management in textile industry**

**Ineta Nemeša<sup>1</sup>, Borislav Stoyanov<sup>2</sup>, Marija Pešić<sup>1</sup>**

*<sup>1</sup>University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia; <sup>2</sup>Technical University of Gabrovo, Bulgaria*

**Automated cutting of narrow lace by laser**

**Belma Kapić**

*University of Bihać, Bosnia and Herzegovina*

**Applying Traditional Clothing Construction Methods to Achieve Zero-Waste in Contemporary Fashion Design**

**Amine Haj Taieb, Hanen Zribi**

*ISAMS/University of Sfax, LGTex, Tunisia*

**Frequency Selective Surface (FSS) based on textile : A Material Optimisation Design**

**Aleksandra Jovanovic, Valentina Bozoki, Danka Đurđić, Andrijana Vukadinović**

*University of Novi Sad, Technical faculty "Mihajlo Pupin", Zrenjanin, Serbia*

**NANOTECHNOLOGY IN THE TEXTILE INDUSTRY**

**CLOSING**



TECHNICAL FACULTY  
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for Higher Education  
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