



**UNION OF ENGINEERS AND TEXTILE TECHNICIANS OF
SERBIA**

AND

**UNION OF ENGINEERS AND TECHNICIANS OF SERBIA
FACULTY OF TECHNOLOGY AND METALLURGY IN BELGRADE
FACULTY OF TECHNOLOGY, SHTIP, NORTH MACEDONIA
SOCIETY FOR ROBOTICS OF BOSNIA I HERZEGOVINA
BASTE - BALKAN SOCIETY OF TEXTILE ENGINEERING, GREECE**

**V INTERNATIONAL SCIENTIFIC CONFERENCE
CONTEMPORARY TRENDS INNOVATIONS IN THE
TEXTILE INDUSTRY**



FINAL PROGRAM

Belgrade, 15-16th September, 2022
Union of Engineers and Technicians of Serbia,
Dom inženjera “Nikola Tesla”, Kneza Miloša 9/III, Beograd



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Science and Technological Development of the Republic of Serbia



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FINAL PROGRAM

THURSDAY, 15.09.2022.

15⁰⁰ - 17⁰⁰ Registration of participants

FRIDAY, 16.09.2022.

9⁰⁰ - 10⁰⁰ Reception of guests and registration of participants

10⁰⁰ – 10¹⁵ Opening ceremony

10¹⁵ - 11³⁰ Plenary lectures

11³⁰- 12⁰⁰ Professional presentations

12⁰⁰ - 13⁰⁰ Cocktail

13⁰⁰ – 14⁴⁵ Session I

14⁴⁵- 15⁰⁰ Coffee break

15⁰⁰ – 16³⁰ Session II-Online

16³⁰ – 16⁴⁵ Coffee break

16⁴⁵ – 17³⁰ Poster session III

17³⁰ Closing ceremony

**Session III - Poster electronic session - published on the website of the Union of
htmlEngineers and Technicians of Serbia**

<https://www.sits.org.rs/textview.php?file=813.html>



LIST OF PRESENTATIONS

PLENARY LECTURES 10¹⁵- 11³⁰ h

Chair Person: Prof. dr Gordana Kokeza, Prof. dr Prof. dr Milovan Vuković, Prof. dr Nuno Belino, Prof. dr Damjana Celcar

1. HEMP FIBERS AGAIN IN SERBIA: OLD FIBERS – NEW APPLICATIONS

Biljana Pejić^{1,2}, Marija Vukčević², Ana Kalijadis³, Mirjana Kostić⁴

¹Academy of Technical and Art Applied Studies, Department of Design, Technology and Management in textile industry, Belgrade, Serbia

²University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia

³University of Belgrade, Department of Materials „VINČA” Institute of Nuclear Sciences - National Institute of the Republic of Serbia

2. ANTIMICROBIAL ACTIVITY OF COTTON YARNS TREATED WITH DIFFERENT CONCENTRATION OF CHITOSAN

Emilija Toshiki¹, Ognjen Petrovski², Milena Petrovska³, Igor Jordanov¹

¹University "Ss. Cyril and Methodius", Faculty of Technology and Metallurgy, Department of Textile, Skopje, North Macedonia

²University "Ss. Cyril and Methodius", Faculty of Medicine, Department of Preclinical and Clinical Pharmacology, Skopje, Republic of North Macedonia

³University "Ss. Cyril and Methodius", Faculty of Medicine, Department of Microbiology with Parasitology, Skopje, Republic of North Macedonia

3. TEXTILE WASTEWATER REUSE WITH MEMBRANE SEPARATION PROCESSES

Davor Dolar¹, Iva Čurić¹

¹University of Zagreb, Faculty of Chemical Engineering and Technology, Croatia

4. REPRESENTATION OF TEXTILE DRAPES OF SQUARE SAMPLES FROM DIGITAL IMAGES

Zlatin Zlatev¹, Liliana Indrie², Julieta Ilieva¹

¹Trakia University-Stara Zagora, Faculty of Technics and Technologies, Yambol, Bulgaria,

²University of Oradea, Faculty of Energy Engineering and Industrial Management, Department of Textiles, Leather and Industrial Management Oradea, Romania

5. COSTUME AT THE PORTRAIT PRESENTATIONS OF NOBLEWOMEN IN THE CHURCH IN DONJA KAMENICA

Dragana Frfulanović¹

¹Academy of Vocational Studies South Serbia, Department of Technological and Artistic Studies, Leskovac



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SESSION I 13⁰⁰-14⁴⁵ h

Chair Person: Prof. dr Koviljka Asanović, Prof. dr Davor Dolar, Prof. dr Emilija Tshikj, Dr Danijela Paunović

6. UPCYCLING – REUSE AND REDESIGNING OF DISCARDED CLOTHES

Damjana Celcar¹

¹Faculty of Design, Ljubljana, Slovenia

7. DEVELOPMENT OF VEGETABLE DYES FOR NATURAL DYEING OF WOOL

Nuno Belino¹, Carmo Serrano^{3,4}, Maria Pinto¹, Jesus Rodilla², Margarida Sapata³, M. Conceição Oliveira⁵

¹University of Beira Interior, Faculty of Engineering, Department of Textile Science and Technology, Covilhã, Portugal

²University of Beira Interior, Faculty of Exact Science, Department of Chemistry, Covilhã, Portugal.

³Instituto Nacional de Investigação Agrária e Veterinária (INIAV, I.P.), Oeiras, Portugal

⁴LEAF – Linking Landscape, Environment, Agriculture and Food – Research Center, Instituto Superior de Agronomia, University of Lisbon, Lisboa, Portugal

⁵University of Lisbon Centro de Química Estrutural, Departamento de Engenharia Química (DEQ), Instituto Superior Técnico (IST), University of Lisbon, Lisboa, Portugal

8. RECOVERY AND STRATEGIC DIRECTIONS FOR THE DEVELOPMENT OF THE TEXTILE INDUSTRY IN THE POST-COVID PERIOD

Gordana Kokeza¹, Sonja Josipović¹, Snežana Urošević²

¹University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia

²University of Belgrade, Technical Faculty in Bor, Bor, Serbia

9. SMART TEXTILES AND PRINTING

Katarina Maričić¹, Nemanja Kašiković¹, Gojko Vladić¹, Teodora Gvoka¹

¹University of Novi Sad, Faculty of Technical Sciences, Department of Graphic Engineering and Design, Novi Sad, Serbia

10. APPLICATION OF CONDUCTIVE MATERIALS ON TEXTILE SUBSTRATES

Dušan Nešić¹, Dragan Tanasković¹, Miloš Vorkapić¹

¹University of Belgrade, Institute of Chemistry, Technology and Metallurgy, Centre of Microelectronic Technologies, Belgrade, Serbia

11. 3D PRINTING IN THE COMPONENTS REALIZATION FOR THE TEXTILE INDUSTRY

Miloš Vorkapić¹, Teodora Vičentić¹, Dušan Nešić¹, Dragan Tanasković¹, Ivana Mladenović¹

¹University of Belgrade, Institute of Chemistry, Technology and Metallurgy, Belgrade, Serbia



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12. EVALUATION OF FINANCIAL PERFORMANCE OF ENTERPRISES IN THE FASHION INDUSTRY USING NON-STANDARDIZED FINANCIAL METRICS

Snežana Knežević¹, Stefan Milojević², Marko Milašinović³, Aleksandra Mitrović³

¹University of Belgrade, Faculty of Organizational Sciences, Belgrade, Serbia

²National Centre for Corporate Education, Belgrade, Serbia

³University of Kragujevac, Faculty of Hotel Management and Tourism, Vrnjačka Banja, Serbia

13. TEXTILE INDUSTRY IN THE LIGHT OF SUSTAINABLE DEVELOPMENT

Adela Medović Baralić¹, Biljana Popović¹, Ljiljana Sretković¹

¹Academy of Technical and Art Applied Studies, Department of Design, Technology and Management in textile industry, Belgrade, Serbia

SESSION II Online session 15⁰⁰-16³⁰ h

Chair Person: Prof. dr Ivana Mladenović Ranisavljević, Doc. dr Dragan Dimitrijević, Doc. dr Violeta Stefanović, Katarina Maričić

14. DIGITAL FASHION & DIGITAL SKILLS

Tadeja Penko¹, Zoran Stjepanović¹, Andreja Rudolf¹

¹University of Maribor, Faculty of Mechanical Engineering, Institute of Engineering Materials and Design, Maribor, Slovenia

15. DRAPABILITY PERFORMANCE OF LYOCELL BLENDED DRAPERY FABRICS MADE OF DIFFERENT FIBRE TYPES

Erhan Kenan Çeven¹, Gizem Karakan Günaydin², Nejla Çeven³, Gülşah Karakaya³

¹Bursa Uludağ University, Textile Engineering Department, Nilüfer, Bursa, Turkey

²Pamukkale University, Buldan Vocational School, Fashion & Design Programme, Buldan Denizli, Turkey

³Vanelli Tekstil San. ve Tic.A.Ş., Organize Sanayi Bölgesi, Nilüfer, Bursa, Türkiye

16. COMPUTATIONAL CUSTOMISED SHOE-SOLE DESIGN: A BRANDING-BASED APPROACH

Athanasios Manavis¹, Prodormos Minaoglou¹, Lazaros Firtikiadis¹, Nikolaos Effkolidis¹, Panagiotis Kyratsis¹

¹University of Western Macedonia, Kila Kozani, Greece

17. MODERN ART TEXTILES IN THE SPATIAL ENVIRONMENT OF THE XX-XXI CENTURIES

Mokina Anna Y¹, Ulme Andra²

¹The Southern Federal University, Rostov-on-Don, Russia

²The Riga technical University, Riga, Latvia

18. DEEP LEARNING NEURAL NETWORKS FOR KNITTED FABRIC DEFECT IDENTIFICATION AND CLASSIFICATION

Subrata Das¹, Keerthana Shanmugaraja¹

¹Bannari Amman Institute of Technology, Department of Fashion Technology, Tamil Nadu, India



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19. 3D PRINTING ON TEXTILES USING THE FUSED FILAMENT FABRICATION: A KEY STUDY

Dimitrios Chaidas¹, Tatjana Spahi², John Kechagias¹

¹Forestry, Wood Science and Design Department, University of Thessaly, Karditsa, Greece

²Polytechnic University of Tirana, Faculty of Mechanical Engineering, Textile and Fashion Department, Tirana, Albania

SESSION III Poster 16⁴⁵-17³⁰

Chair Person: Doc. dr Ineta Nemeša, Dr Gordana Čolović, Mr Dragana Frfulanović, MSc Mina Paunović

20. IMPACT OF INK LIMITING LEVEL FOR PRINTING SUBLIMATION PAPER ON QUALITY OF SUBLIMATION PRINT

Emilija Toshiki¹

¹University "Ss. Cyril and Methodius", Faculty of Technology and Metallurgy, Department of Textile, Skopje, North Macedonia

21. COLOR CHANGING SMART TEXTILES: PHOTOCROMIC AND THERMOCHROMIC MATERIALS

Nebojša Ristić¹, Ivanka Ristić¹, Suzana Đorđević¹, Aleksandra Mičić¹

¹Academy of Vocational Studies South Serbia, Department of Technological and Artistic Studies, Leskovac

22. INFLUENCE OF TEXTURING PROCESS PARAMETERS ON THE DEGREE OF CRYSTALLINITY AND BIREFRINGENCE PA6.6 TEXTURED YARN

Olga Stojanović¹, Marija Savić Pojužina¹, Kristina Savić¹, Jelica Simeunović²

¹Academy of Technical and Art Applied Studies, Department of Design, Technology and Management in textile industry, Belgrade, Serbia

²KTR Jee seetex, Beograd, Serbia

23. OPTIMIZATION OF REMOVAL PROCESS OF CATIONIC DYE FROM WATER USING NATURAL SORBENTS

Aleksandar Zdravković¹, Ivanka Ristić¹, Aleksandra Mičić¹,

Dragana Marković Nikolić¹, Danijela Stojadinović¹, Tanja Nikolić¹, Nebojša Ristić¹

¹Academy of Vocational Studies South Serbia, Department of Technological and Artistic Studies, Leskovac

24. ON THE MARGINS OF THE AVANT-GARDE AND TRADITION- CONSTRUKTIVISM IN SOCIALIST FASHION DESIGN

Dragana Frfulanović¹, Milena Savić¹, Aleksandra Perić-Nikolić¹

¹Academy of Vocational Studies South Serbia, Department of Technological and Artistic Studies, Leskovac



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25. **FASHION IN THE PERIOD OF THE 19TH AND 20TH CENTURY IN THE EASTERN REGION OF THE REPUBLIC OF NORTH MACEDONIA AS AN INSPIRATION FOR MODERN FASHION SOLUTIONS**

Sanja Risteski¹, Vineta Srebrenkoska¹

¹University "Goce Delčev", Štip, Faculty of Technology, North Macedonia

26. **IDENTIFYING OF POTENTIAL CHALLENGES OF CSR AND SDG IN THE TEXTILE INDUSTRY**

Kosana Vičentijević¹, Snežana Rakić¹, Nikola Stojanović¹

¹Western Serbia academy of applied studies – Valjevo Department, Valjevo, Republic of Serbia

27. **IMPACT OF HARMFULNESS OF CHEMICAL SUBSTANCES IN THE WORK PROCESS IN TEXTILE INDUSTRY ORGANIZATIONS**

Violeta Stefanović¹, Snežana Urošević², Ivana Mladenović-Ranisavljević³, Dragan Igić⁴

¹City Administration of Leskovac, Leskovac, Serbia,

²University of Belgrade, Technical faculty Bor, Bor, Serbia,

³University of Niš, Faculty of Technology Leskovac, Leskovac, Serbia

⁴Ministry of Defense, Belgrade, Serbia

28. **HIMALAYAN NETTLE:FROM PLANT TO YARN**

Ana Santiago¹, Cláudia Pinheiro¹, Nuno Belino¹

¹University of Beira Interior, Faculty of Engineering, Department of Science and Textile Technology, Covilhã, Portugal

29. **INVESTIGATION OF THE QUALITY OF FLAX PLAIN SINGLE JERSEY WEFT-KNITTED FABRICS**

Koviljka A. Asanović¹, Mirjana M. Kostić¹, Tatjana V. Mihailović¹, Nadiia Bukhonka², Slavica B. Maletić³

¹University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia

²University of Novi Sad, Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia

³Faculty of Physics, University of Belgrade, Belgrade, Serbia

30. **PROGRAMMING AND PRODUCTION OF KNITTED FABRIC WOMEN'S BLOUSE ON A COMPUTERIZED KNITTING MACHINE**

Ruzica Stevkovska-Stojanovska¹, Maja Jankoska¹, Goran Demboski¹

¹University "Ss. Cyril and Methodius", Faculty of Technology and Metallurgy, Department of Textile Engineering, Skopje, North of Macedonia

31. **ANALYSIS OF THE SITUATION WITH TEXTILE WASTE**

Silvana Zhezhova¹, Sonja Jordeva¹, Sashka Golomeova Longurova¹, Vineta Srebrenkoska¹, Vanga Dimitrijeva Kuzmanoska¹

¹University "Goce Delchev", Štip, North Macedonia

32. **EFFECT OF YARN TWIST ON THEIR ELASTIC PERFORMANCE**

Snežana Stanković¹, Milada Novaković²

¹University of Belgrade, Faculty of Technology and Metallurgy, Belgrade, Serbia

²High Technical College of Professional Studies, Zrenjanin, Serbia



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33. ADVANCED FEED SYSTEMS FRO LOCKSTITCH SEWING MACHINES

Ineta Nemeša¹

¹University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Serbia

34. DETERMINING THE EFFICIENCY OF TREATED TEXTILE WASTEWATER ON THE COLOR OF THE COTTON KNITTED FABRIC WITH THE DETERMINATION OF ZETA POTENTIAL

Iva Ćurčić¹, **Davor Dolar**¹, **Šejla Sarunović**¹

¹University of Zagreb, Faculty of Chemical Engineering and Technology, Croatia

35. COMPUTER AIDED PATTERN MAKING OF LADY'S SWIMSUIT FROM IDEA TO REALIZATION

Maja Jankoska¹

¹University "Ss. Cyril and Methodius", Faculty of Technology and Metallurgy, Department of Textile, Skopje, North Macedonia

36. APPLICATION OF CAST CARDBOARD PACKAGING IN THE TEXTILE INDUSTRY

Teodora Gvoka¹, **Gojko Vladić**¹, **Nemanja Kašiković**¹, **Katarina Maričić**¹, **Gordana Bošnjaković**¹

¹University of Novi Sad, Faculty of Technical Sciences, Department of Graphic Engineering and Design, Novi Sad, Serbia

37. AUTOMATED FIBER PLACEMENT TECHNOLOGY OVERVIEW

Sara Srebrenkoska¹, **Marija Cekerovska**¹

¹University "Goce Delčev", Shtip, Faculty of Mechanical Engineering, North Macedonia

38. INTEGRAL INFORMATION SYSTEMS IN SMALL AND MEDIUM ENTERPRISES OF TEXTILE AND CLOTHING INDUSTRY

Dragan Dimitrijević¹, **Snežana Urošević**², **Živoslav Adamović**³

¹Union University Nikola Tesla in Belgrade, Faculty of Applied Sciences in Nis, Serbia

²University in Belgrade, Technical Faculty in Bor, Bor, Serbia

³University of Belgrade, Faculty of Mechanical Engineering, Belgrade

39. ANALYSIS OF WORKPLACES IN THE FASHION INDUSTRY BY RULA TOOL

Gordana Čolović^{1,2}, **Nikola Maksimović**¹, **Danijela Paunović**¹, **Mina Paunović**¹

¹Academy of Technical and Art Applied Studies, Department of Design, Technology and Management in textile industry, Belgrade, Serbia

²SE-ERGO, Belgrade, Serbia

40. THE IMPACT OF THE COVID-19 PANDEMIC ON CLOTHES ONLINE SHOPPING

Bruno Završnik¹

¹University of Maribor, Faculty of Economics and Business, Maribor, Slovenia

41. ADVERTISING FASHION CLOTHES ON SOCIAL MEDIA

Bruno Završnik¹

¹University of Maribor, Faculty of Economics and Business, Maribor, Slovenia



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42. APPLICATION OF HEIJUNKA TECHNIQUE IN THE GARMENT INDUSTRY

Olga Stojanović¹, Marija Savić Pojužina¹, Kristina Savić¹, Jelica Simeunović²

¹Academy of Technical and Art Applied Studies Department of Design, Technology and Management in textile industry, Belgrade, Serbia

²KTR Jee seetex, Beograd, Serbia

43. APPLICATION OF THE LEAN CONCEPT IN THE PROCESS OF MAKING A TEXTILE PRODUCTS

Mina Paunović¹, Miroljub Nikolić¹, Gordana Čolović¹

¹Academy of Technical and Art Applied Studies Department of Design, Technology and Management in textile industry, Belgrade, Serbia

44. CORPORATE SOCIAL RESPONSIBILITY IN THE TEXTILE INDUSTRY

Marina Jovanović¹, Snežana Urošević², Milovan Vuković²

¹„PPT-TMO” AD Trstenik, Trstenik, Serbia

²University of Belgrade, Technical Faculty in Bor, Serbia

45. DEFECT CHARACTERISTICS USING AUTOMATED FIBER PLACEMENT

Sara Srebrenkoska¹, Marija Cekerovska²

¹University “Goce Delčev”, Shtip, Faculty of Mechanical Engineering, North Macedonia

46. FUNDAMENTALS OF CONVEYOR BELTS

Nikola Ilanković¹, Dragan Živanić¹

¹University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Serbia

47. INCREASING ENERGY EFFICIENCY OF TEXTILE INDUSTRY

Njegoš Dragović¹, Snežana Urošević², Milovan Vuković²

¹Phd student, University of Belgrade, Technical Faculty in Bor, Serbia

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