

The 9th International Symposium Technical Textiles - Present and Future

Iași, Romania, 20 November 2025

Online



GENERAL PROGRAM

20 November, Eastern European Time (EET time zone)

10:00 -10:30	TTPF 2025 OPENING CEREMONY (1st link)		
	Rodica HARPA , Symposium Chair, Gheorghe Asachi Technical University of Iasi, ROMANIA		
	Savin-Dorin IONESI , Dean of the Faculty of Industrial Design and Business Management, Gheorghe Asachi Technical University of Iasi, ROMANIA		
	Luminița CIOBANU , Coordinator of Centre for Research and Innovation in Textiles and Fashion Industry - SMART-Tex-IS, Faculty of Industrial Design and Business Management, Gheorghe Asachi Technical University of Iasi, ROMANIA		
	Special guests		
	Vincent NIERSTRASZ , President of Association of Universities for Textiles - AUTEX, University of Borås, SWEDEN		
	Andrej DEMŠAR , President of Balkan Society of Textile Engineers - BASTE, University of Ljubljana, SLOVENIA		
10:30 - 12:00	PLENARY SESSION I - Keynote Lectures (1st link) <i>CHAIR: Mirela BLAGA</i> , Gheorghe Asachi Technical University of Iasi, ROMANIA		
10:30 -11:00	Ayoub NADI , École Supérieure des Industries du Textile et de l'Habillement, Casablanca, MOROCCO THE TEXTILE INDUSTRY IN MOROCCO: CHALLENGES AND PROSPECTS		
11:00-11:30	Juris BLŪMS , Riga Technical University, LATVIA KEY COMPONENTS OF ENERGY-INDEPENDENT WEARABLES: HUMAN BODY ENERGY HARVESTERS AND SELF-POWERED SENSORS		
11:30 -12:00	António DINIS MARQUES , University of Minho, PORTUGAL HOMO SUSTENTABILIS: DISPOSAL OF FASHION PRODUCTS AND CIRCULAR ECONOMY		
12:00 -12:15	COFFEE BREAK		
12:15 -13:30	PARALLEL SESSIONS (1st link, 2nd link, 3rd link)		
	SESSION 1.1. (1st link)	SESSION 2.1. (2nd link)	SESSION 3.1. (3rd link)
	Chair: Alison GAULT Ulster University, NORTHERN IRELAND Technical Textiles and Sustainability	Chair: Manuela AVĂDANEI Gheorghe Asachi Technical University of Iasi, ROMANIA Functional and Smart Textiles for Meditech, Protech and Sportech Applications	Chair: Mariana COSTEA Gheorghe Asachi Technical University of Iasi, ROMANIA Technical Textiles for Clothtech and Hometech Applications
12:15-12:30	PROCESS OPTIMIZATION IN WOVEN FABRICS: STEP REDUCTION STRATEGIES	DRUG-ELUTING PCL-BASED ELECTROSPUN VASCULAR GRAFTS: ADVANCES IN PREVENTING INTIMAL HYPERPLASIA AND THROMBOSIS	ANALYSIS OF THE THERMAL AND PROCESSING BEHAVIOR OF PLA AS A PET SUBSTITUTE IN TEXTILE MANUFACTURING – A STATE-OF-THE-ART REVIEW

	<u>Aliye AKARSU ÖZENC</u> , Zeynep ATLAS, Semiha EREN	<u>Suzan OZDEMİR</u> , Janset OZTEMUR-SEZGIN, Hande SEZGIN, Ipek YALCIN-ENIS	<u>Madeleine EPPINGER</u> , Yordan KYOSEV, Martin LUCCARELLI
12:30-12:45	FROM WASTE FIBERS TO FUNCTIONALITY: WOOL-DERIVED MELANIN FOR ADVANCED TECHNICAL TEXTILES <u>Romeo PRUNEANU</u> , Melinda PRUNEANU, Ingrid-Ioana BUCIȘCANU, Vasilica POPESCU	ANTITHROMBOTIC DRUG-INTEGRATED ELECTROSPUN PCL VASCULAR GRAFTS FOR SMALL-CALIBER VESSELS: A MINI-REVIEW <u>Janset OZTEMUR-SEZGIN</u> , Suzan OZDEMİR, Hande SEZGIN, Ipek YALCIN-ENIS	THE WORKWEAR AESTHETIC IN MENSWEAR: SHAPING COORDINATED SETS FOR FUNCTION AND STYLE <u>Özgür CEYLAN</u> , <u>Nesliqül KILIÇ</u> , Emel AYDIN, Irmak TAŞ, Karin ZENCEFİL, Tanya CANKAR
12:45-13:00	EMBROIDERED STRUCTURES IN TECHNICAL TEXTILES <u>Andreea Madalina TALPĂ</u> , Carmen LOGHIN, Irina IONESCU	PROPERTIES OF STAINLESS STEEL/COTTON BLENDED ROTOR SPUN YARNS FOR ANTISTATIC APPLICATIONS <u>Mariana ICHIM</u> , Irina ARNĂUTU, Doina CAȘCAVAL, Simona BĂCĂIȚĂ, Marius Răzvan ZVONARU	ANALYSIS OF FABRIC SURFACE TEXTURE BASED ON 3D CONTACTLESS MEASUREMENT <u>Małgorzata MATUSIAK</u>
13:00-13:15	CLOSING THE LOOP: DESIGN-DRIVEN STRATEGIES FOR TACKLING TEXTILE FABRIC WASTE <u>Irina-Elena MARIN</u> , Manuela-Lăcrămioara AVĂDANEI, Elena-Andreea VASILE, Mălina-Ioana ROȘCA	DYNAMIC DIGITAL PROTOTYPING IN GARMENT FUNCTIONALITY: USING CLO3D AVATAR JOINTS FOR INCLUSIVE PATTERN DESIGN <u>Valentina FRUNZE</u> , Elena FLOREA-BURDUJA, Daniela FĂRÎMĂ	TENSILE PROPERTIES OF SILK BLEND KNITTED FABRICS <u>Živa ZUPIN</u> , Sabina GABROVŠEK
13:15-13:30	GREEN CHEMISTRY APPROACHES TO TEXTILE DYEING USING PLANT WASTE EXTRACTS <u>Iuliana PETCU</u> , Nicoleta TOFĂNESCU, Angela DĂNILĂ, <u>Romeo PRUNEANU</u> , Vasilica POPESCU	WAYS OF IMPROVING THE QUALITY OF MILITARY FOOTWEAR <u>Liliia CHERTENKO</u> , <u>Natalia KUZINA</u> , Andrii LIPSKYI, Kateryna RESHETNIAK	INFLUENCE OF STRUCTURAL PARAMETERS ON THE PROPERTIES OF KNITTED FABRICS FOR SLEEP MASKS <u>Crina-Mădălina SPASENIE</u> , Ana-Ramona CIOBANU, Mirela BLAGA, Mihaela PERDEVARĂ, Rodica HARPA
13:30 -14:00	LUNCH		
14:00 - 15:00	PLENARY SESSION II - Keynote Lectures (1st link) CHAIR: Radek SOUKUP , University of West Bohemia, CZECH REPUBLIC		
14:00 -14:30	Benny MALENGIER , Ghent University, BELGIUM ELECTRO-TEXTILE STRUCTURES USED FOR PERSONAL THERMAL MANAGEMENT SYSTEMS		
14:30-15:00	Anne-Marie GRUNDMEIER , University of Education Freiburg, GERMANY WHY TEXTILE EDUCATION SHOULD EMBRACE SUSTAINABILITY		
15:00-15:15	COFFEE BREAK		
15:15-16:30	PARALLEL SESSIONS (1st link, 2nd link, 3rd link)		
	SESSION 1.2. (1st link)	SESSION 2.2. (2nd link)	SESSION 3.2. (3rd link)
	Chair: Simona VASILE HOGENT University of Applied Sciences and Arts, BELGIUM Functional and Smart Textiles for Meditech, Protech and Sportech Applications	Chair: Cristina PIROI Gheorghe Asachi Technical University of Iasi, ROMANIA Technical Textiles and Sustainability Technical Textiles for Agrotech, Buildtech and Geotech Applications	Chair: Adrian VILCU Gheorghe Asachi Technical University of Iasi, ROMANIA Management and Entrepreneurship
15:15-15:30	AEROGELS AND XEROGELS IN DRUG DELIVERY: ADVANCES, OPPORTUNITIES, AND FUTURE DIRECTIONS	SUSTAINABLE 3D-PRINTED BIOCOMPOSITES: EFFECT OF COTTON FABRIC REINFORCEMENT ON FLEXURAL PROPERTIES	THE ART OF CONNECTION: HOW MULTIDISCIPLINARY DESIGN AND BRAND COLLABORATIONS DRIVE ORIGINALITY AND EMOTIONAL ENGAGEMENT IN FASHION

	<u>Handan PALAK</u> , Aslı GÜRBÜZ YURTSEVER, Özlem İpek KALAOĞLU-ALTAN, Meryem Sedef ERDAL, Burçak KARAGÜZEL KAYAĞLU	<u>Radu FIRICEL</u> , Constantin-Eugen AILENEI, Irina-Elena MARIN, Savin-Dorin IONESI, Emil-Constantin LOGHIN	Özgür CEYLAN, Irmak TAŞ, <u>Nesligül KILIÇ</u> , Emel AYDIN, Sinan KILINÇ, Nail ÇIRAK, Elif Gökçe ÖZKULAK
15:30-15:45	BALLISTIC PERFORMANCE OPTIMIZATION OF PARA-ARAMID COMPOSITES THROUGH STRATEGIC BINDER SYSTEM SELECTION <u>Niki Vlad MANCAŞI</u> , Irina Niculina CRISTIAN, Savin Dorin IONESI, Eugen Constantin AILENEI	LIFE CYCLE AND DURABILITY ASSESSMENT OF COTTON AND RECYCLED COTTON T-SHIRTS: IMPLICATIONS FOR SUSTAINABLE CONSUMPTION <u>Irina-Elena MARIN</u> , Eugen Constantin AILENEI, Radu FIRICEL, Emil Constantin LOGHIN	STRATEGIC MODELS FOR TRANSITIONING TOWARDS SUSTAINABLE ORGANISATIONS IN THE CONTEXT OF INDUSTRY 5.0 <u>Petrina-Delia VAGIUC</u> , Marius PÎSLARU, Ionuț-Viorel HERGHILIGIU
15:45-16:00	DIGITAL MODELLING OF CONDUCTIVE YARN PERFORMANCE IN BRAIDED FABRIC STRUCTURES <u>İlkay Özsev YÜKSEK</u> , Andrei DANIELESCU, Alper GÜRARSLAN, Özgür ATALAY, Yordan KYOSEV	STUDY ON NATURAL ANTIMICROBIAL SOLUTIONS FOR THE PRESERVATION OF SILK TEXTILE ARTIFACTS <u>Cristina PASCAL</u> , Sergiu SCUTARU, Irina-Niculina CRISTIAN	MODELS FOR MEASURING THE INFORMATION SYSTEM SUCCESS: A THEORETICAL SYNTHESIS APPROACH <u>Stefana-Cătălina POHONTU-DRAGOMIR</u> , Adrian VÎLCU, Marius PÎSLARU, Ionuț-Viorel HERGHILIGIU
16:00-16:15	THE „WEAR-RISK-STANDARD” TRIAD AS AN ANALYTICAL MODEL FOR THE REDESIGN OF PERSONAL PROTECTIVE EQUIPMENT FOR WELDERS USING ELECTRIC AND GAS-BASED PROCESSES <u>Ana TOPOR</u> , Stela BALAN, <u>Manuela AVADANEI</u>	LEAN IN TEXTILE SMES: A CONTEXT-SENSITIVE FRAMEWORK AND PROGRESSIVE ROADMAP WITH LEAN 4.0 ENABLERS <u>Nicoleta-Mihaela CASANEANU (DASCALU)</u> , Laura-Crina MIRAUTE (COCA), Marius PISLARU	EVIDENCE ON THE DYNAMICS OF THE TEXTILE AND CLOTHING INDUSTRY AND MARKET IN ROMANIA <u>Mihaela Brîndușa TUDOSE</u> , Raluca Irina CLIPA
16:15-16:30	FUNCTIONAL AND ERGONOMIC DESIGN OF PROTECTIVE GARMENTS FOR WELDERS USING ELECTRIC AND GAS-BASED PROCESSES TO ENHANCE DURABILITY AND SAFETY <u>Ana TOPOR</u> , Stela BALAN, <u>Manuela AVĂDANEI</u>	INFLUENCE OF METEOROLOGICAL FACTORS ON THE PHYSICO-MECHANICAL CHARACTERISTICS OF FIBRILLATED YARNS <u>Cristina RACU</u> , Marius Răzvan ZVONARU, <u>Odelia Iuliana HERCIU</u>	A DESCRIPTIVE APPROACH TO PERCEPTIONS REGARDING THE CONCEPTUAL MODEL OF MAINTENANCE CONTRACTS MANAGEMENT <u>Mădălina-Laura VELESCU</u> , Ion VERZEA, Adrian VÎLCU
16:30-16:45	COFFEE BREAK		
16:45-18:00	PARALLEL SESSIONS (1st link, 2nd link, 3rd link)		
	SESSION 1.3. (1st link)	SESSION 2.3. (2nd link)	SESSION 3.3. (3rd link)
	Chair: Ilda KAZANI <i>Polytechnic University of Tirana, Albania</i> Textile Education and Training for the Technical Textiles Field	Chair: Irina CRISTIAN <i>Gheorghe Asachi Technical University of Iasi, ROMANIA</i> Technical Textiles and Sustainability	Chair: Andreea APETREI KALVERAM <i>Catholic University of Valencia, SPAIN</i> Management and Entrepreneurship
16:45-17:00	3D4U - COLLABORATION BETWEEN UNIVERSITIES/RESEARCH CENTRES AND INDUSTRY IN UKRAINE <u>Evridiki PAPACHRISTOU</u> , Nataliia PERVAIA, Liliia CHERTENKO, Oksana MYKHAILOVSKA, Tetiana NADOPTA, Tetiana IVANSHEA, Mykola RIABCHYKOV, Liudmyla NAZARCHUK, Golda VYNOGRADSKA, <u>Mariana COSTEA</u> , Olena KYZYMCHUK, Stamatoula BILALI	TEXTILES IN TRANSITION: EU REGULATION ON WASTE MANAGEMENT <u>Andreea Nistorac</u> , Luminița CIOBANU	FROM CONSUMER TO PROSUMER: A QUANTITATIVE STUDY OF SOLAR ENERGY INTEGRATION IN NORTHEASTERN ROMANIA <u>Adrian VÎLCU</u> , Ionuț-Viorel HERGHILIGIU, Laurențiu GHERASIM, Ștefana-Cătălina POHONTU-DRAGOMIR, Cătălin-Ioan BUDEANU, Nicoleta-Mihaela DASCĂLU

17:00-17:15	<p>AN EXAMPLE OF SUPPORTING TEXTILE EDUCATION IN UZBEKISTAN AND KAZAKHSTAN: THE CASE OF TEX4FUTURE PROJECT</p> <p><u>Luminița CIOBANU</u>, Savin Dorin IONESI</p>	<p>APPLICATION OF ECODESIGN PRINCIPLES IN THE DYEING OF NATURAL FIBRE TEXTILES</p> <p>Andreea TIMOFTE, Alina Mihaela PALCU, Valentina-Gabi STANECU, Romeo PRUNEANU, Ioana Roxana CORDUNEANU, Vasilica POPESCU</p>	<p>EXPLORING PERSONALITY-BASED PREDICTORS OF ENVIRONMENTAL ATTITUDES AND BEHAVIORS IN TECHNICAL ACADEMIC CONTEXTS</p> <p><u>Raluca Petronela LAZARESCU</u>, Adrian VILCU, Catalin VILCU, Elena AVRAM</p>
17:15-17:30	<p>THE IMPACT OF THE ERASMUS+ DIGITAL FASHION PROJECT</p> <p><u>Irina IONESCU</u>, Emil LOGHIN, Manuela Lăcrămioara AVĂDANEI, Andreea Madalina TALPA</p>	<p>RESEARCH ON SUSTAINABLE AND MODULAR DESIGN IN WOMEN'S TRENCH COATS: FROM TRADITION TO INNOVATION</p> <p><u>Manuela-Lăcrămioara AVĂDANEI</u>, Irina-Elena MARIN, Ana-Diana VATRĂ, Nicoleta POPAC</p>	<p>GOVERNANCE, STRATEGY AND RISK MANAGEMENT: A COMPARATIVE ANALYSIS OF LEADING INTERNATIONAL FRAMEWORKS</p> <p><u>Mihai-Doru BULIGA</u>, Stejărel BREZULEANU, Ion VERZEA</p>
17:30-17:45	<p>A DIGITAL APPROACH TO TEXTILE EDUCATION FOR PROGRAMMING KNITTED FABRICS VIA TECHNICAL MODULES</p> <p><u>Ana-Ramona CIOBANU</u></p>	<p>TEXTILE MATERIALS ENNOBLING USING EMBROIDERY TECHNIQUES</p> <p><u>Irina IONESCU</u>, <u>Andreea Madalina Talpă</u>, Mihaela POPANU</p>	<p>CAREER-MAKING, A MOTIVATION FACTOR IN PRIVATE ROMANIAN COMPANIES</p> <p><u>Diana Geantimir</u>, Luminița Mihaela LUPU</p>
17:45-18:00		<p>LINKING TECHNOLOGICAL ADVANCES AND CULTURAL HERITAGE: THE CASE OF CRAFT-IT4SD PROJECT</p> <p><u>Savin Dorin IONESI</u>, Aura MIHAI, Antonela CURTEZA, Radu FIRICEL, Iuliana STREBA, Raluca LUPU</p>	<p>ANALYSIS OF THE DETERMINANTS OF CORPORATE PERFORMANCE. RESEARCH CARRIED OUT ON A SAMPLE PILOT IN THE GARMENT INDUSTRY</p> <p><u>Mihaela Brîndușa TUDOSE</u>, Corina ȘUȘNEA (TROFIN)</p>
18:00	<p>TTPF 2025 CLOSING CEREMONY (1st link)</p>		