# CONFERENCE PROGRAM




# 20th Romanian Textiles and Leather Conference
# CORTEP 2026

**Iași, Romania**
**05 - 07 November 2026**

## ORGANIZERS

„Gheorghe Asachi" Technical University of Iasi, Romania

Faculty of Industrial Design and Business Management

## PROCEEDINGS PUBLISHED BY

Paradigm Publishing Services

## CO-ORGANIZERS

Asociația Absolvenților Facultății de Textile-Pielărie din Iași

The General Association of Engineers in Romania

Coordination Council of Doctoral Programs from
Faculty of Industrial Design and Business Management

## PARTNERS

Association of Universities for Textiles

Balkan Society of Textile Engineers




AUTEX Research Journal

MDPI - Textiles, Special Issue "Emerging Innovations in Textile Materials, Technologies and Sustainable Manufacturing"

# CONFERENCE PROGRAM

# CORTEP 2026

## NOVEMBER 4, WEDNESDAY

**10.00-17.00: Walking Tour Iasi**

**18.00-20.00: Welcome reception - Faculty of Industrial Design and Business Management, Tex 1, Ground floor**

## NOVEMBER 5, THURSDAY

**08.30-09.30: Registration - Rectorate Building, TUIASI, Ground floor**

**09.30-10.00: Opening ceremony - Conference Room "Cristea Niculescu-Otin", TUIASI, Ground floor**
***Connection link***

**Mirela BLAGA** - President of the Conference, "Gheorghe Asachi" Technical University of Iași, Romania
**Carmen LOGHIN** - Vice-Rector, "Gheorghe Asachi" Technical University of Iași, Romania
**Luminița CIOBANU** - Coordinator of Centre for Research and Innovation in Textiles and Fashion Industry, Faculty of Industrial Design and Business Management, Gheorghe Asachi Technical University of Iasi, Romania (SMART-Tex-IS)
**Dorin IONESI** - Dean, Faculty of Industrial Design and Business Management, "Gheorghe Asachi" Technical University of Iași, Romania
**Vincent NIERSTRASZ** - President of Association of Universities for Textiles (AUTEX)
**Andrej DEMSAR** - President of Balkan Society of Textile Engineers (BASTE)

### 10.00-11.30: KEY NOTE SESSION 1 – *Connection link*

**Chair Persons: Maria Carmen LOGHIN, Savin Dorin IONESI**

10.00-10.30
**Dominique ADOLPHE** - Southern Alsace National Engineering School (ENSISA), France
*E-TEXTILE – HOW TO COMBINE TRADITIONAL AND INNOVATIVE TECHNIQUES TO PRODUCE THE TEXTILES OF THE FUTURE*

10.30-11.00
**Holger CEBULLA** - Chemnitz University of Technology, Germany
*MECHANICAL RECYCLING OF WOOL*

11.00-11.30
**Halis ERDOGAN** - Dokuz Eylul University, Turkey
*SUSTAINABLE PERFORMANCE IN TEXTILES: ADVANCED FUNCTIONAL APPLICATIONS OF BIO-BASED AND BIODEGRADABLE FIBERS*

**11.30-12.00: Coffee break**

### 12.00-13.00: PLENARY SESSION 1 – *Connection link*

**Chair Persons: Mirela BLAGA, Dominique ADOLPHE**

12.00-12.20
**Gülşah Ekin KARTAL** - Dokuz Eylül University, Turkey
*DEVELOPMENT OF ANTIFUNGAL WOOL FABRICS USING LIPOSOME-ENCAPSULATED NATURAL AND SYNTHETIC ACTIVE AGENTS*

12.20-12.40
**Alison GAULT** - Ulster University, United Kingdom
*FROM FIBRE TO MARINE USE: DEVELOPING A SUSTAINABLE WOOL ROPE FROM RATHLIN BLACKFACE WOOL FOR THE KELP INDUSTRY*

12.40-13.00
**Muzzamal HUSSAIN** - National Textile University, Pakistan
*BEYOND KNITTING: AIRBORNE FIBRE CONCENTRATIONS ACROSS FLEECE PRODUCTION STAGES*

**13.00-14.30: Lunch break, Faculty of Industrial Design and Business Management, Tex 1, Room 10**

## 14.30-16.00: PARALLEL SESSIONS 1, Faculty of Industrial Design and Business Management, Tex 1

| | 1A – *Connection link* | 1B – *Connection link* | 1C – *Connection link* |
|---|---|---|---|
| | **Chair Person**<br>**Halis ERDOGAN** | **Chair Person**<br>**Holger CEBULLA** | **Chair Person**<br>**Özgür CEYLAN** |
| | ***Recycling, life cycle analysis, sustainability and circularity*** | ***Innovative textile materials and processing*** | ***Smart textiles, medical textiles, composites*** |
| | ***Council Room*** | ***SMARTER Room*** | ***Room 108*** |
| **14.30-14.45** | VALORIZATION OF NATIVE ALBANIAN SHEEP WOOL THROUGH NATURAL DYEING USING PLANT EXTRACTS AND AGRO-INDUSTRIAL WASTE<br>**Majlinda HYLLI, Sidorela VISHKULLI, Benarda KALLAKU, Ilda KAZANI** | ADVANCED TEXTILE MATERIALS AND PRODUCTS FOR PROTECTION AGAINST MECHANICAL VIBRATIONS<br>**Mirela BLAGA, Cristina GROSU, Mihaela PERDEVARĂ, Neculai-Eugen SEGHEDIN** | LUFFA AEGYPTIACA FIBER-REINFORCED PLA BIOCOMPOSITES: FABRICATION AND MECHANICAL CHARACTERIZATION<br>**Mehmet Niyazi DURUKAN, Dicle Ayça Ertek KIRAZ, Abdulkadir PARS, Fatma Zehra Engin SAGIRLI, Ali BEYIT** |
| **14.45-15.00** | CLOTHING DURABILITY AS A KEY FACTOR IN REDUCING ENVIRONMENTAL IMPACT: A REVIEW<br>**Irina-Elena MARIN, Constantin-Eugen AILENEI, Radu FIRICEL** | APPLICATION OF THE IMPULSE EXCITATION TECHNIQUE FOR DYNAMIC CHARACTERIZATION OF TEXTILE MATERIALS<br>**Cristina GROSU, Mirela BLAGA, Neculai Eugen SEGHEDIN, Mihaela PERDEVARĂ** | EVALUATING CHROME-FREE LEATHER AS A SUSTAINABLE SUBSTRATE FOR SMART APPLICATIONS<br>**Elona HIDRI, Majlinda HYLLI, Aulon SHABANI, Ilda KAZANI** |
| **15.00-15.15** | DIVERGING STANDARDS: METHODOLOGICAL FRAGMENTATION IN TEXTILE LIFE CYCLE ASSESSMENT<br>**Luminița CIOBANU, Andreea NISTORAC** | EVALUATION OF CHANGES IN THE ELECTRICAL RESISTIVITY OF COTTON FIBRE ASSEMBLIES THROUGH DIFFERENT STAGES OF THE SPINNING PREPARATION<br>**Riana HIDA, Ilda KAZANI, Përllumb BERBERI, Ayoub NADI, Artan SINOIMERI** | FROM HEMP CULTIVATION TO STEM VALORISATION: A STRUCTURED REVIEW OF HEMP HARVEST MATURITY, FIBRE QUALITY AND END-USE POTENTIAL<br>**Constantin-Eugen AILENEI, Ioan PUIU, Radu FIRICEL, Irina-Elena MARIN, Lucian Constantin HARAGA** |
| **15.15-15.30** | CONSISTENCY AND CONTRADICTIONS IN EU SUSTAINABLE TEXTILE AND APPAREL POLICIES: A CRITICAL REVIEW<br>**H.Ziya OZEK** | A WEB-BASED RESPONSE SURFACE MODELLING TOOL TESTED ON OIL-IN-WATER EMULSIONS INTENDED FOR TEXTILE FUNCTIONALIZATION<br>**Radu-Gabriel DĂNILĂ, Romeo PRUNEANU, Angela DĂNILĂ, Vasilica POPESCU, Laura CHIRILĂ** | OPTIMIZATION OF CONDUCTIVE COATING PROCESSES FOR AGRICULTURAL WASTE-DERIVED TEXTILE STRUCTURES<br>**Ayşenur MEMİŞ, Münire Sibel ÇETİN, Özgür ATALAY** |
| **15.30-15.45** | DESIGNING CIRCULARITY: A SUSTAINABLE UPCYCLING FRAMEWORK FOR POST-CONSUMER TEXTILE WASTE AND CRAFT-BASED INNOVATION<br>**Kanishka SINGH, Manoj Kumar PARAS** | TEXTILE SUBSTRATE FIXATION ON THE BUILD PLATE FOR STABLE FDM PRINTING<br>**Radu FIRICEL, Constantin-Eugen AILENEI, Irina-Elena MARIN, Savin-Dorin IONESI, Maria-Carmen LOGHIN** | MULTIFUNCTIONAL JANUS BILAYER COATED POLYESTER FABRIC FOR PERSONAL THERMAL MANAGEMENT<br>**Nazife KORKMAZ MEMİŞ, Aziza ZHOLDOSHOVA** |
| **15.45-16.00** | ENVIRONMENTAL ASSESSMENT OF TEXTILE WASTE-REINFORCED COMPOSITE MATERIALS FOR BUILDING APPLICATIONS<br>**Eugen-Constantin AILENEI, Sebastian George MAXINEASA, Irina Elena MARIN, Radu FIRICEL, Ramona BUDEANU, Ioana-Roxana VIZITIU-BACIU** | CHEMICAL SAFETY IN TEXTILE PROCESSING: HAZARDOUS SUBSTANCES, SAFER ALTERNATIVES AND MATERIAL DEVELOPMENT – A REVIEW<br>**Romeo PRUNEANU, Melinda PRUNEANU, Ingrid BUCIȘCANU, Nicoleta TOFĂNESCU** | ANALYSIS OF MULTILAYER TECHNICAL EMBROIDERY TECHNIQUES<br>**Andreea TALPĂ, Carmen LOGHIN, Irina IONESCU, Ștefania-Felicia GĂLĂȚANU** |

**16.00-16.30: Coffee break, Room 10**

## 16.30-18.00: PARALLEL SESSIONS 2, Faculty of Industrial Design and Business Management, Tex 1

| | 2A – *Connection link* | 2B – *Connection link* | 2C – *Connection link* |
|---|---|---|---|
| | **Chair Person**<br>**Ilda KAZANI** | **Chair Person**<br>**Ionuț HERGHILIGIU** | **Chair Person**<br>**Mariana COSTEA** |
| | ***Entrepreneurship and innovation*** | ***Engineering education*** | ***Smart textiles, medical textiles, composites, Artificial Intelligence applied in textiles*** |
| | ***Council Room*** | ***SMARTER Room*** | ***Room 108*** |
| **16.30-16.45** | TRANSLATING BRAND HERITAGE INTO DESIGN DECISIONS: A 35TH-ANNIVERSARY PREMIUM DENIM PRODUCT GROUP | MIXED-METHODS RESEARCH IN TEXTILE AND FASHION STUDIES: QUALITATIVE AND QUANTITATIVE INSIGHTS FROM THE TEXUNITE PROJECT | INVESTIGATION OF WILLOW–POPLAR–HEMP FIBER HYBRID REINFORCEMENTS FOR COMPOSITE MATERIALS IN UPHOLSTERED FURNITURE APPLICATIONS |

| | | | |
|---|---|---|---|
| | **Özgür CEYLAN, Irmak TAŞ, Nesligül KILIÇ, Emel AYDIN, Neslihan AK, Ecem GÖKAY, Tuğçe YAVAŞ** | **Maleika Anna SCHMIDBLEICHER, Anne-Marie GRUNDMEIER, Matejka BIZJAK, Mirela BLAGA, Manuela BRÄUNING, Mustafa ERTEKIN, Zlatinka KAZLACHEVA, Zlatin ZLATEV** | **Mariana ICHIM, Florin CIOLACU, Emil Ioan MUREȘAN** |
| **16.45-17.00** | FORM, FINISH AND IDENTITY IN HEAVYWEIGHT DENIM: A DESIGN SYSTEM FOR PREMIUM DURABILITY AND TIMELESS STYLE<br>**Özgür CEYLAN, Irmak TAŞ, Emel AYDIN, Nesligül KILIÇ, Neslihan AK, Özgen ÖZTURAN, Ecem KARAMANLARGİL** | IMPLEMENTING EDUCATION FOR SUSTAINABLE DEVELOPMENT AS A GUIDING PRINCIPLE IN FASHION DESIGN PROGRAMMES – A COMPARATIVE STUDY ACROSS GERMANY AND IRAN<br>**Hanieh CHOOPANI, Martina GLOMB, Anne-Marie GRUNDMEIER** | STRUCTURAL OPTIMIZATION OF LOW-AREAL-DENSITY WOVEN FABRICS FOR MILITARY PROTECTIVE GEAR: BALANCING TENSILE AND TEAR RESISTANCE<br>**Niki Vlad MANCAȘI, Irina Niculina CRISTIAN** |
| **17.00-17.15** | THE SOCIO-ECONOMIC IMPACT OF RUDA SHEEP WOOL IN THE KUKËS REGION, ALBANIA: PAST, PRESENT AND FUTURE PERSPECTIVES<br>**Blerina KOLGJINI, Julie KOLGJINI, Ermira SHEHI, Armida ALIKAJ, Elie MAUSLIM** | BUILDING A PRACTICE-ORIENTED EDUCATIONAL ECOSYSTEM IN TEXTILE ENGINEERING THROUGH THE ADAPTATION OF EUROPEAN BEST PRACTICES: EXPERIENCE OF THE ERASMUS+ TEX4FUTURE PROJECT<br>**Nikolaos BILALIS, Malokhat ILKHAMOVA** | COMPARATIVE ANALYSIS OF EMBROIDERY TECHNIQUES FOR CONDUCTIVE TEXTILE CIRCUITS<br>**Andreea TALPĂ, Luminița CIOBANU, Ion Răzvan RĂDULESCU, Nicolae MILITARU, Stefania Felicia GALATANU, Sebastian PÎRCIU** |
| **17.15-17.30** | DIGITAL-ADAPTIVE EMPLOYEE-CENTRIC MANAGEMENT: A CONCEPTUAL MODEL FOR VIRTUAL FIRMS<br>**Ioana-Adelina POPA, Ion VERZEA, Adrian VÎLCU** | EVALUATION OF FASHION DESIGN AND TEXTILE AND FASHION DESIGN UNDERGRADUATE PROGRAMS IN TÜRKİYE IN TERMS OF DIGITAL FASHION EDUCATION<br>**Selma DOLANBAY DOĞAN, Meral İŞLER** | BIOMATERIALS IN MEDICINE: CURRENT USES AND RECENT ADVANCES<br>**Diana Andreea PLĂCINTĂ, Mirela BLAGA** |
| **17.30-17.45** | THE EVOLUTION OF MAINTENANCE MODELS IN INDUSTRIAL DIGITALIZATION<br>**Nicoleta Loredana CIURARIU, Ion VERZEA** | ADDRESSING THE URGENT NEEDS OF THE TEXTILE SECTOR FOR SKILLS ON SUSTAINABILITY<br>**Luminița CIOBANU, Irina MARIN, Elena AVRAM** | GENERATIVE AI IN FASHION MARKETING: NAVIGATING THE AUTHENTICITY PARADOX, ETHICAL DISCLOSURES, AND BRAND TRUST IN THE WAKE OF MANGO'S CAMPAIGN<br>**Costel Cristian DĂNĂILĂ, Lidia ALEXA** |
| **17.45-18.00** | ORGANIZATIONAL CHANGE MANAGEMENT IN THE PUBLIC SECTOR: A RISK-BASED PERSPECTIVE<br>**Mihai-Doru BULIGA, Stejărel BREZULEANU, Ion VERZEA** | AN ANALYSIS OF THE STRUCTURE AND TYPES OF QUESTIONS USED IN THE CREATION OF TESTS USED IN TEXTILE HIGHER EDUCATION ASSESSMENT<br>**Adrian BUHU, Liliana BUHU, Daniela NEGRU** | THE EFFECT OF JUTE FIBER SURFACE MODIFICATION ON THE MECHANICAL BEHAVIOR OF JUTE/POLYLACTIC ACID COMPOSITES<br>**Saghar HEMATKHAHAN, Hooshang NOSRATY, Seyed Abolfazl MIRDEHGHAN** |

**19.00 - SOCIAL PROGRAM - GALA DINNER, BELLARIA RESTAURANT.**

## NOVEMBER 6, FRIDAY

### 9.00-10.00: KEY NOTE SESSION 2, *SMARTER Room – Connection link*

**Chair Person: Manuela AVĂDANEI, Aminoddin HAJI**

09.00-09.30

**Daiva MIKUČIONIENĖ** - Kaunas University of Technology, Lithuania

*CHALLENGES AND SUSTAINABLE SOLUTIONS IN THE TEXTILE INDUSTRY IN REDUCING THE RELEASE OF MICROPLASTICS*

09.30-10.00

**Yordan KYOSEV,** Dresden University of Technology, Germany

*POSSIBILITES OF THE AI SYSTEMS FOR TEXTILE PRODUCT DEVELOPMENT*

### 10.00-11.00: PLENARY SESSION 2, *SMARTER Room – Connection link*

**Chair Person: Aura MIHAI, Muzzamal HUSSAIN**

10.00-10.20

**Aminoddin HAJI** - Yazd University, Iran

*GREEN CHEMISTRY IN TEXTILES: DES APPLICATIONS FROM ECO-DYEING TO WASTE RECYCLING*

10.20-10.40

**Roohollah BAGHERZADEH** - Amirkabir University of Technology, Iran

*SMART TEXTILES AND WEARABLE ELECTRONICS DEVICES: CHALLENGES AND INTEGRATION STRATEGIES*

10.40-11.00

**Razieh JAFARI -** Institute for Color Science and Technology, Iran

*ARTIFICIAL INTELLIGENCE IN TEXTILE COLOR SCIENCE: FROM COLOR MEASUREMENT TO INTELLIGENT DECISION-MAKING*

11.00-11.20

**Alexandra-Georgiana BAJDAN, Laurentiu Florin PREDA** – MDPI

*MDPI ACADEMIC PUBLISHING WORKSHOP - PUBLICATION ETHICS*

**11.20-11.30: Coffee break, Room 10**

**11.30-13.00: PARALLEL SESSIONS 3, Faculty of Industrial Design and Business Management, Tex 1**

| | **3A – *Connection link*** | **3B – *Connection link*** | **3C – *Connection link*** |
|---|---|---|---|
| | **Chair Person<br>Roohollah BAGHERZADEH** | **Chair Person<br>Rodica HARPA** | **Chair Person<br>Majlinda HYLLI** |
| | ***Comfort, quality of textiles and sensory evaluation, Footwear design and technology*** | ***Digital product development for TCLF industry, Smart textiles, medical textiles, composites, Innovative textile materials and processing,*** | ***Recycling, life cycle analysis, sustainability and circularity, New business models and emergent ecosystems, Artificial Intelligence applied in textiles*** |
| | ***Council Room*** | ***SMARTER Room*** | ***Room 108*** |
| **11.30-11.45** | DEVELOPMENT OF AN IMPROVED DESIGN OF CUSTOMIZED SUPPORTIVE AND PRESSURE-RELIEVING INSOLES FOR PREGNANT WOMEN USING 3D PRINTING TECHNOLOGY<br>**Natalia KUZINA, Liliia CHERTENKO, Tymofii LYPSKYI, Andriy LIPSKYI, Viktoriia KERNESH** | SUSTAINABLE DEVELOPMENT OF MODERN MENSWEAR: ZERO WASTE DESIGN<br>**Svetlana CANGAS, Marcela IROVAN, Ecaterina BOGATAIA, Manuela-Lacramioara AVADANEI, Caius-Laurentiu BALAN, Irina IONESCU** | ASSESSING ECO-MAINTENANCE MATURITY IN THE TEXTILE AND LEATHER INDUSTRY: A DATA-DRIVEN APPROACH<br>**Denisa-Alexandra NICA, Ion VERZEA, Adrian VÎLCU, Stejărel BREZULEANU** |
| **11.45-12.00** | THERMO-PHYSIOLOGICAL COMFORT AND COOL TOUCH PERFORMANCE OF LIGHTWEIGHT POLYPROPYLENE WOVEN APPAREL FABRICS<br>**Yasemin DULEK, Ipek YILDIRAN, Bugce SEVINC, Melis ERDEM OZTURK, Cem GUNESOGLU** | DESIGN AND FABRICATION OF HIGH-STABILITY TEXTILE STRAIN SENSORS FOR SMART COMPRESSION GARMENTS<br>**Shahood uz ZAMAN, Maham RAZA, Aqsa IMRAN** | FROM LINEAR TO CIRCULAR MODELS: PERSPECTIVES IN THE CONTEXT OF INDUSTRY 5.0<br>**Petrina-Delia VAGIUC, Marius PÎSLARU, Adrian VÎLCU, Larisa IVAȘCU, Ionuț-Viorel HERGHILIGIU** |
| **12.00-12.15** | ARTIFICIAL INTELLIGENCE IN FOOTWEAR DESIGN: A COMPARATIVE CASE STUDY<br>**Aura MIHAI, Iuliana CHIHAI, Arina SEUL, Mariana COSTEA, Raluca LUPU** | COMPREHENSIVE EVALUATION OF 3D VIRTUAL PROTOTYPING OF CORPORATE APPAREL BASED ON AN INTEGRAL COMPLIANCE INDEX<br>**Tetiana NADOPTA, Evridiki PAPACHRISTOU, Oksana MYKHAILOVSKA, Oleksandr KUNTSOV** | MACHINE LEARNING APPROACH FOR PREDICTING VISUAL COLOR ACCEPTABILITY IN BLACK FABRIC MATCHING<br>**Razieh JAFARI** |
| **12.15-12.30** | FUNCTIONALITY AND DESIGN OF HEALTHCARE FOOTWEAR: IMPACT ON THE MUSCULOSKELETAL HEALTH AND PROFESSIONAL PERFORMANCE<br>**Mariana COSTEA, Ioana OJOG, Arina SEUL, Aura MIHAI, Adriana CHIRILĂ, Marta HARNAGEA** | PROPERTIES OF ANTISTATIC WOVEN FABRICS PRODUCED WITH RING-SPUN AND ROTOR-SPUN COTTON/STAINLESS STEEL WEFT YARNS<br>**Mariana ICHIM, Doina CAȘCAVAL, Marius Răzvan ZVONARU** | DIGITALIZATION – VECTOR OF FINANCIAL SUSTAINABILITY IN FASHION<br>**Mihaela Brîndușa TUDOSE, Mihaela ONOFREI, Nicoleta ȚÎCU, Gabriela COJOCARIU** |
| **12.30-12.45** | OVERVIEW OF 3D PRINTED APPLICATIONS FOR TEXTILES AND FABRICS IN THE FOOTWEAR SECTOR<br>**Pedro DUARTE, Margarida MATA, Florbela SILVA** | DIGITAL RECONSTRUCTION OF TRADITIONAL ROMANIAN HAND-WOVEN TEXTILES<br>**Cristina PASCAL, Irina-Niculina CRISTIAN** | MULTIPRODUCT BREAK-EVEN-ANALYSIS: SALES MIX RECONFIGURATION, MARGIN OF SAFETY AND OPERATING LEVERAGE<br>**Mihaela DIACONU, Elena AVRAM** |
| **12.45-13.00** | COMPUTATIONAL STUDY OF THERMAL COMFORT IN COMPRESSION STOCKINGS: ASSESSING THE FPC MODEL'S SENSITIVITY TO ACTIVITY LEVEL AND SEX DIFFERENCES IN WARM CONDITIONS<br>**Ingrid PERAZA, Olena KYZYMCHUK, Karl HESSE, Yordan KYOSEV** | PRELIMINARY STUDIES ON THE CONTENT OF MICROPLASTICS FOUND IN WASTEWATER RESULTING FROM HOUSEHOLD LAUNDRY<br>**Vasilica MAIER, Melinda PRUNEANU, Romeo PRUNEANU, Stelian Sergiu MAIER** | COGNITIVE AND SOCIAL USE OF GENERATIVE AI: EFFECTS ON ACADEMIC LEARNING, SATISFACTION AND INNOVATION AMONG ENGINEERING AND MANAGEMENT STUDENTS<br>**Adrian VÎLCU, Teodor Ion VERZEA, Cătălin VÎLCU, Alexandra Denisa NICA** |

**13.00-14.00: Lunch Break, Faculty of Industrial Design and Business Management, Tex 1, Room 10**

| 14.00-15.15: PARALLEL SESSIONS 4, Faculty of Industrial Design and Business Management, Tex 1 | | | |
|---|---|---|---|
| | **4A – *Connection link*** | **4B – *Connection link*** | **4C – *Connection link*** |
| | **Chair Person<br>Razieh JAFARI** | **Chair Person<br>Blerina KOLGJINI** | **Chair Person<br>Luminița CIOBANU** |
| | ***Engineering education, Innovative textile materials and processing*** | ***Innovative textile materials and processing, Innovations in textile dyeing and finishing*** | ***Digital product development for TCLF industry, Recycling, life cycle analysis, sustainability and circularity*** |
| | ***Council Room*** | ***SMARTER Room*** | ***Room 108*** |
| **14.00-14.15** | LEADERSHIP AS A DRIVER OF EMPLOYEE PERFORMANCE IN CONTEMPORARY ORGANIZATIONS: AN EMPIRICAL STUDY RELEVANT TO ENGINEERING EDUCATION AND MANAGEMENT TRAINING<br>**Adrian VÎLCU, Raluca-Petronela LĂZĂRESCU, Cătălin VÎLCU, Petrina-Delia VAGIUC, Cristian GORINCIOI** | WATER-BASED ZIF-8 SYNTHESIS AND ITS APPLICATION IN COTTON DYEING<br>**Gezu Ketema JANKA, Huseyin Aksel EREN, Aminoddin HAJI** | HYBRID EMBROIDERY-FDM STRUCTURES: INFLUENCE OF STITCH DENSITY ON ADHESION<br>**Ștefania-Felicia GĂLĂȚANU, Radu FIRICEL, Daniela NEGRU, Ionuț DULGHERIU, Andreea-Mădălina TALPĂ** |
| **14.15-14.30** | BLENDED 3D CAD TRAINING FOR FOOTWEAR DESIGN: ENHANCING DIGITAL COMPETENCIES THROUGH AN INTERNATIONAL CAPACITY-BUILDING PROGRAMME<br>**Mariana COSTEA, Aura MIHAI, Arina SEUL, Evridiki PAPACHRISTOU, Raluca LUPU** | COMPARATIVE ASSESSMENT OF THE MECHANICAL PERFORMANCE OF FIREFIGHTER PROTECTIVE FABRICS AFTER REPEATED LAUNDERING<br>**Cristina GROSU, Doina TOMA, Alina POPESCU, Adrian SALISTEAN, Georgeta POPESCU, Catalin ENESCU, Marcel ISTRATE** | A CASE STUDY ON ROMANIAN CULTURAL HERITAGE FOR A SUSTAINABLE FASHION COLLECTION<br>**Elena SECARĂ, Manuela-Lăcrămioara AVĂDANEI, Irina-Elena MARIN** |
| **14.30-14.45** | EFFECT OF TEXTILE PRETREATMENTS ON FTIR-DERIVED STRUCTURAL INDICES OF PERIODATE OXIDISED COTTON FABRICS<br>**Romeo PRUNEANU, Melinda PRUNEANU, Mihaela Dana SUFLET, Vasilica MAIER, Nicoleta TOFĂNESCU** | OPTIMIZATION OF THE DYEING PROCESS OF MECHANICAL STRETCH POLYESTER KNITTED FABRICS WITH RESPONSE SURFACE METHODOLOGY<br>**Aliye AKARSU ÖZENÇ, Zeynep ATLAS, Semiha EREN** | INTEGRATED MICROWAVE-ASSISTED EXTRACTION OF CURCUMINOIDS FROM TURMERIC POWDER AND SUSTAINABLE HEMP DYEING THROUGH DYE BATH REUSE<br>**Andrei POPESCU, Alina Mihaela PALCU, Andreea TIMOFTE, Iuliana PETCU, Vasilica POPESCU, Angela DĂNILĂ, Melinda PRUNEANU, Madalina Maria POPESCU BREZULEANU, Valentina-Gabi STĂNESCU** |
| **14.45-15.00** | THE VISUAL GRAMMAR OF FOLK DRESS IN MOLDAVIA: MOTIFS, COLOUR AND ETHNOGRAPHIC CONTEXT<br>**Ştefania-Felicia GĂLĂȚANU, Daniela NEGRU, Andreea-Mădălina TALPĂ** | COMPARATIVE STRUCTURAL EFFICIENCY AND WARP YARN CONSUMPTION ANALYSIS OF HIGH-TENACITY POLYESTER SAFETY-BELT WEBBING<br>**Daniela NEGRU, Adrian VÎLCU, Cătălin VÎLCU, Alexandru-Vasile MĂRIEI** | FROM SHOP-FLOOR KPIS TO PRODUCT PASSPORTS: A LEAN SIX SIGMA INDUSTRY 4.0 DATA GOVERNANCE ARCHITECTURE FOR TEXTILE SMES<br>**Nicoleta-Mihaela CASANEANU (DASCALU), Marius PISLARU, Adrian VÎLCU** |
| **15.00-15.15** | CASE STUDY REGARDING BACTERIAL AND FUNGAL LOAD OF SEASONALLY WORN SHEEPSKIN CLOTHING<br>**Vasilica MAIER, Melinda PRUNEANU, Romeo PRUNEANU, Stelian Sergiu MAIER** | EXPERIMENTAL INVESTIGATION INTO THE TENSILE BEHAVIOR OF HIGH-STRENGTH POLYETHYLENE FISHING LINES<br>**Marius Răzvan ZVONARU, Cristina RACU, Doina CAŞCAVAL, Andreea Ana Maria ASANDULUI** | INDUSTRY 4.0 TECHNOLOGY ADOPTION IN ROMANIAN FASHION INDUSTRY SMES: AN EXPLORATORY ANALYSIS<br>**Laura-Diana LUCA, Emil-Constantin LOGHIN, Cristina-Mihaela CODREANU** |

| 13.00-14.00: POSTER PRESENTATION (ELECTRONIC PRESENTATION) |
|---|
| ***Building Tex 1, Room 10, Ground Floor*** |
| ARTIFICIAL INTELLIGENCE IN ADVERTISING DESIGN<br>**Carmen TIȚĂ** |
| FUNCTIONAL AND ERGONOMIC ASPECTS OF PERSONAL PROTECTIVE CLOTHING FOR URBAN FARMERS<br>**Stela BALAN, Aurelia MIRCA, Manuela-Lacramioara AVADANEI, Elena-Andreea VASILE, Alexandru HANU** |
| DIGITALIZATION PRACTICES IN ROMANIAN FASHION MANUFACTURING COMPANIES: A FOUR-LEVEL FRAMEWORK FOR POSITIONING COMPANIES IN RELATION TO APPAREL 4.0<br>**Emil-Constantin LOGHIN, Laura-Diana LUCA, Ionuţ BOSTAN, Cristina-Mihaela CODREANU** |

| |
|---|
| FROM PREDICTION TO PRECISION: THE INTEGRATED PRECISION NEONATAL CARE FRAMEWORK (IPNCF) FOR PRETERM BIRTH MANAGEMENT<br>**Victoria DANILA, Stela BALAN** |
| THE CONSTRUCTIVE-DECORATIVE EVOLUTION OF TRADITIONAL BAGS AND PURSES IN THE CONTEXT OF CONTEMPORARY DESIGN: VALORIZING THE CRAFTSMANSHIP HERITAGE THROUGH INNOVATION AND SUSTAINABILITY<br>**Ana ISCHIMJI, Victoria DANILA, Liliana CONDRATICOVA** |
| THE CURRENT STATE OF RESEARCH ON UV-PROTECTIVE TEXTILE STRUCTURES FOR WORKWEAR: A REVIEW<br>**Laura NATU, Iuliana MOTRESCU, Mihai Alexandru CIOLAN** |
| CONTRIBUTIONS TO THE RESEARCH OF INNOVATIVE SUSTAINABLE PRODUCTION PROCESSES FOR FUNCTIONAL GARMENTS<br>**Sebastian POPA, Casandra-Alina FOTACHI** |
| STRESSFUL WORK ENVIRONMENT AND WELLBEING: ARE THEY INTERCONNECTED?<br>**Nicoleta-Andreea FILIP, Ion VERZEA, Dănuț-Constantin FILIP** |
| FROM DIGITAL REPRESENTATION TO PREDICTIVE TRACEABILITY: THE INTEGRATED PREDICTIVE TRACEABILITY FRAMEWORK (IPTF) FOR SUSTAINABLE INDUSTRY 5.0 TEXTILE ECOSYSTEMS<br>**Victoria DANILA, Stela BALAN, Ana ISCHIMJI** |
| SUSTAINABLE TEXTILE MATERIALS AND THEIR ENVIRONMENTAL IMPACT<br>**Ionuț-Viorel Herghiligiu, Stan Adriana-Denisa** |
| ASSESSING THE IMPACT OF SUSTAINABILITY PRACTICES ON THE PERFORMANCE OF COMPANIES IN THE TEXTILE SECTOR. LITERATURE REVIEW<br>**Marinela NEȘTIAN, Mihaela Brîndușa TUDOSE** |

**15.15-15.30: CLOSING CEREMONY, SMARTER Room – *Connection link***

**16.30-18.30: TUIASI Aula Magna and Library Visit**

## SATURDAY, NOVEMBER 7

**08.00-21.00: Optional Day trip in Bucovina region**

# ABOUT IASI

Situated in the North-East of Romania, between the Moldavian Plateau and Jijia Plain, on the River Bahlui, it used to be the crossing place of the most important commercial roads that passed through Moldavia coming from Poland, Hungary, Russia and Constantinople. Archaeological investigations attest the presence of human communities on the present territory of the city and around it as far back as the prehistoric age.



Iasi is considered as the most important cultural centre of the country even after Bucharest. It is in Iasi that the first Romanian university was founded in 1860 and at present, accommodates annually over 60,000 students in 5 public and 3 private universities. Iasi is home to more than 50 churches and hosts several cultural centres. The National Theater (the oldest in Romania), Opera House, Iaşi State Philarmonic, Tătăraşi Athenaeum, Central University Library (the oldest in Romania), the large number of museums and memorial houses, the famous Botanical Garden (the oldest and largest in Romania), the independent theater and several student organizations show the intense cultural life in the city.

## MAIN SIGHTS

Iaşi is an outstanding educational centre, and preserves some beautiful pieces of architecture, such as the Trei Ierarhi Church and the neo-Gothic Palace of Culture (the site of four museums - of History, of Technology, of Ethnography, and of Art).

## CULTURAL LIFE

One of the most important cultural centres, Iaşi has many theatres, museums, and the like. The **"Vasile Alecsandri" National Theater**, opened in 1837 is the oldest National Theatre in Romania. The building, designed according to the plans of the Viennese architects Hermann Helmer and Ferdinand Fellner was built between 1894–1896, and also hosts starting 1956 the National Romanian Opera Iaşi.





National Theatre “Vasile Alecsandri”



The Palace of Culture (1906–1925, designed in flamboyant neo-Gothic style)

**The Palace of Culture** is an iconic building and it was partly built on the ruins of the mediaeval Royal Court of Moldavia. The Palace of Culture is inspired by the style of the Palace of Justice in Paris, built in the same date as the Clock Tower of the Palace of Culture from Iasi. In the night of October 11 – 12, the architect and his 2 sons spent their time in the tower trying to adjust the clock. In that night The Hora of Unity (Hora Unirii) was heard throughout the city.
It hosts four museums:

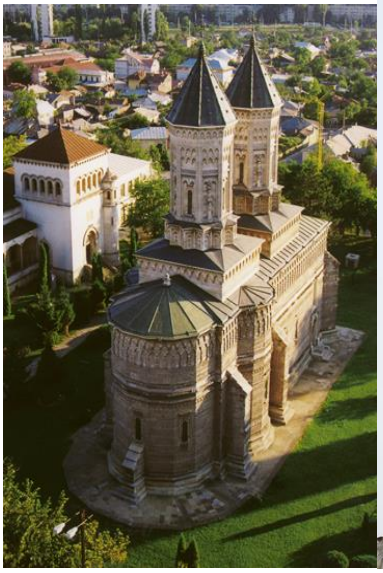
- The Art Museum has the largest art collection in Romania, with more than 8,000 paintings, out of which 1,000 belong to the national and universal patrimony.
- The Moldavian History Museum offers more than 35,000 objects from various fields: archaeology, numismatics, decorative art, ancient books, documents etc.
- The Ethnographic Museum of Moldavia owns more than 11,000 objects depicting the Romanian advance through the ages.
- The Museum of Science and Technology offers many musical devices.




**”Saint Trei Ierarhi” Church**. A unique monument of its kind, a repository of the cultural and spiritual life of Moldavia, the Monastery of the Three Holy Hierarchs is located in the old centre of Iasi, on Stefan cel Mare si Sfant Boulevard, formerly known as the Princely Street.

The Church, built during Prince Vasile Lupu’s reign (1637 -1639), was intended to be a royal burial ground; it reflects the founder’s aspiration to the Byzantine world as it combines traditional structures and shapes with precious materials and a sumptuous decoration. Metropolitan Varlaam consecrated this holy place on the 6th of May 1639, and two years later Saint Paraskeve’s relics were moved here. The monastery accommodated a printing house and the "Schola Basiliana", the future Princely Academy. In 1970 the monastery was closed and the only religious services to be officiated were the celebration of the feast day of the Three Hierarchs (30thJanuary) and the Union Day on 24th of January. Following the 1989 events, the monastery was reopened at the initiative of His Beatitude Daniel, Metropolitan of Moldavia and Bukovina.

The monument is renowned for its embroidery in stone (most of it preserved in its original form) that decorate the outer walls. Thirty different carved stone decoration bands cover the entire outside walls of the church from the base to the top of the steeples; they are inspired from the national old wood carvings and embroideries blended with Asian and Western elements. An impressive threefold twisted cord – a symbol of the Holy Trinity – makes the architectural complex of the church absolutely perfect.




“Trei Ierarhi” Church (1635–1639)

## EDUCATION AND SCIENCE

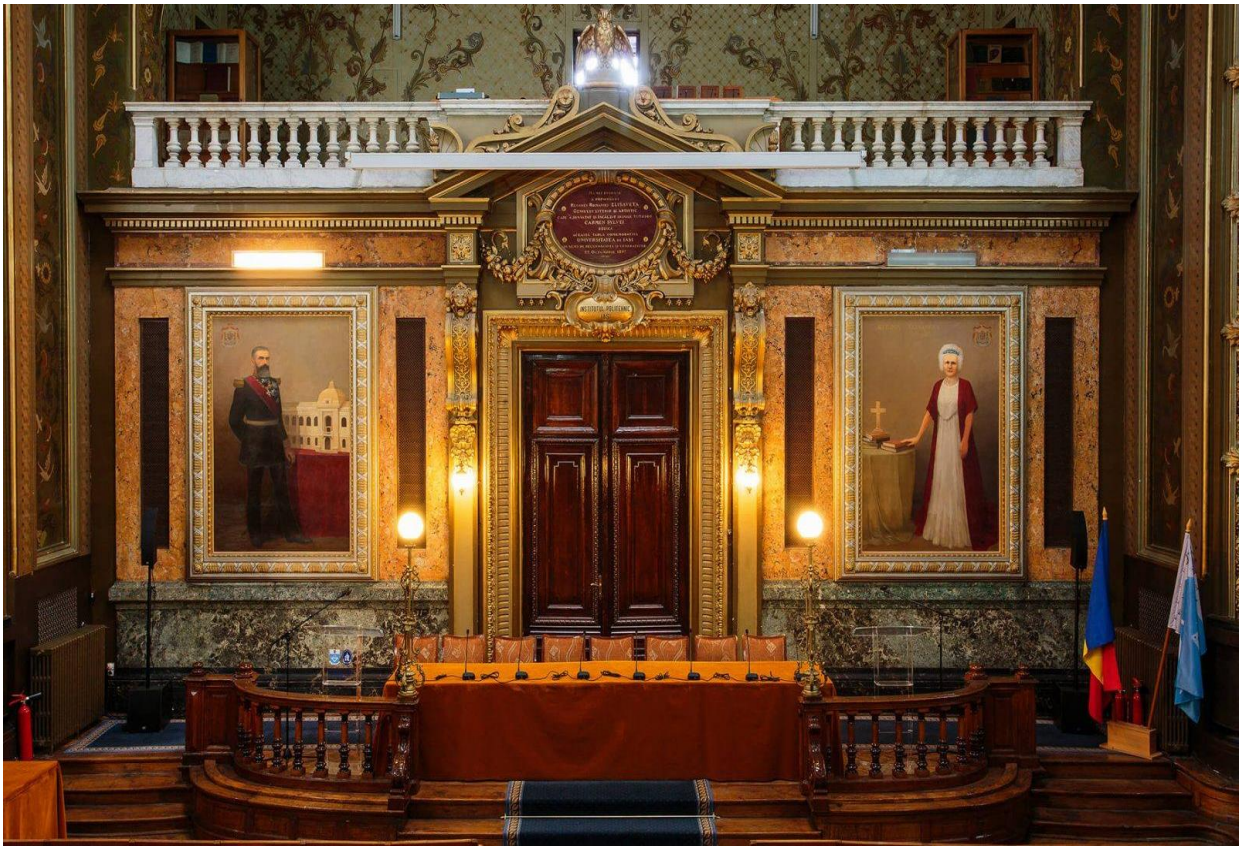
The first Technical High Education structure in Romanian language was established in the autumn of 1813, when engineer Gheorghe Asachi laid the foundations of a class of engineers, its activities taking place within the Greek Academy of Iaşi.
Iaşi is home to the oldest Romanian university (University of Iaşi), opened by (and nowadays named after) Domnitor Alexandru Ioan Cuza in 1860.
The city is host to five universities, and is widely regarded as the cultural "heart" of the Old Kingdom (that is Moldavia, Wallachia, and Dobruja - the three regions comprising Romania until 1918).
In 1937, the two applied science sections of the university of Iaşi became departments of the newly created Gheorghe Asachi Polytechnic School; In the period before and after World War II, the later (renamed Polytechnic Institute in 1948) extended its domain of activity, especially in the field of engineering, and became adopted a Technical University in 1993.

## PUBLIC UNIVERSITIES IN IASI:

"Al. I. Cuza" University is the oldest higher education institution in Romania. Since 1860, the university has been carrying on a tradition of excellence and innovation in the fields of education and research. With over 23.000 students and 750 academic staff, the university enjoys high prestige at national and international level and cooperates with 280 universities world-wide. Alexandru Ioan Cuza University is a member of some of the most important university networks and associations: the Coimbra Group, EUA – European University Association, Utrecht Network, International Association of Universities, University Agency of Francophony and the Network of Francophone Universities (RUFAC).



**"Gheorghe Asachi" Technical University of Iasi** is among the oldest and well known institutions from the country, having an important tradition in engineering, scientific and cultural education, with a distinguishable presence on the international level. The university trains engineers with high qualifications, able to respond quickly and efficiently to the requirements of innovation, research and economic development. Moreover, the university caries on programs designed to continuously upgrade the engineers` professional skills imposed by the tendencies appeared at a global level.



**"Gr. T. Popa" University of Medicine and Pharmacy** - One of the oldest educational places in Romania, it was founded in 1879 as a Faculty of Medicine, later being associated with other two institutions which complete the medical instruction area – the Faculty of Pharmacy and the Faculty of Dentistry. In 1991, the institute receives the status of University and the name of the famous representative of the School of Functional Anatomy in Iasi, Grigore T. Popa. Later on, the Faculty of Medical Bioengineering was also included, the only one of the kind in the country. The university is proud today of its valuable professors and the material basis and modern technique, appropriate for the didactic and scientific research activity processes.



**"G. Enescu" University of Arts** is a public university in Iaşi, Romania, founded in 1860. It was named in honour of the composer George Enescu. The institution was established on 1 October 1860, as the Music and

Declamation School, by decree of Prince Alexandru Ioan Cuza, followed 26 days later, by the foundation of the School for Sculpture and Painting. In October 1864, Cuza approved the Charter for the Music and Declamation Conservatory and the Charter for the National Schools of Fine Arts (establishing the departments of painting, sculpture, gravure, architecture and the art of landscape architecture). In 1931, the Conservatory and the School of Fine Arts became the Academy of Music and Dramatic Art of Iași, which soon adopted the name George Enescu, and the Iași Academy of Fine Arts, respectively.





**Iasi University of Life Sciences (IULS)** is a specialized institution of superior agronomic and veterinary medicine training, financed by the state and having as fundamental mission the training of agricultural, horticultural and animal sciences engineers, agricultural economists, engineers in food industry, biologists, as well as veterinary surgeons. Our university is a serious academic partner, recognized by many European universities and institutions in the field of activity. We have 159 people as part of our teaching staff and research teams, who are teaching over 4200 students. Our academic offer provides courses from domains of study of national and international applicability, high-quality training, scientific research performance, access to modern facilities and equipment and also opportunities to participate in study and practice European mobility programmes, which all serve to build successful careers for all our students.



## SHOPPING→ Palas Mall

Located in the historic core of the city, near the Palace of Culture, the PALAS ensemble is a "city in the heart of the city". Designed and developed pursuant to the “lifestyle centre” concept, PALAS integrates in this unique complex areas for retail, hotels, A-class offices, apartments, underground parking lot with approximately 2,500 parking spaces and a perimeter set up for entertainment, all these on a built area of over 270,000 square meters. PALAS represents a premiere, both for Romania and for the real estate portfolio of the IULIUS Company, being the largest private investment ever made in north-eastern Romania, its total value being euro 265 million.

