ITMC 2026

CONFERENCE PROGRAMME

17 NOVEMBER	18 NOVEMBER	19 NOVEMBER

A clearer, color-coded programme for three days of keynotes, workshops, exhibitions and networking.

KEYNOTES | WORKSHOPS | BREAKS | SOCIAL

LILLE METROPOLIS, Villeneuve d'Ascq, FRANCE

17

TUESDAY
November 17, 2026

8:15– 9:00

BREAK

Check-in and Breakfast

Check-in, | Industry exhibition, | Posters exhibition

ROOM
Room 4 and Hall

9:00 – 9:20

CEREMONY

Conference opening

Opening address by Professor Fabien Salaun
GEMTEX Director
Professor Vladan Koncar
Conference Chair

ROOM
Room 3

9:20 – 10:55

WORKSHOP

Session 1, Workshop Mass Customization vs. Global Logistics

Chairperson: Omar Cherkaoui

ROOM
Room 3



Chairperson: Omar Cherkaoui

Invited conference: Omar Cherkaoui, Mass Customization vs. Global Logistics: Orchestrating the Logistically Efficient Product

Exploring Sensorized Garments Production Methods*
Ramos Serrano, Alberto (1,2); Seoane Martínez, Fernando (1,3,4,5)
Organization(s): 1: University of Boras,- The Swedish School of Textiles-, Boras, Sweden; 2: Universidad de Diseño, Innovación y Tecnología(UDIT), Department of Textile Technology, Madrid, Spain; 3: Karollinska Institutet, Department for Clinical Science, Intervention and Technology , Stockholm, Sweden; 4: Karollinska Institutet, Department of Medical Technology, Stockholm, Sweden; 5: Karollinska University Hospital, Department of Clinical Physiology, Stockholm, Sweden

Synergistic ultrasonic dyeing of wool: optimisation of a single-bath process with Rubia and Reseda extracts for eco-friendly textiles
Chajii, Oumaima; Chemchame, Younes; Achahboune, Reda; Dalal, Mohamed; El Bouari, Abdeslam
Organization(s): Laboratory of Physical Chemistry of Applied Materials (LCPMA), Faculty of Sciences Ben M'Sick, Hassan II University of Casablanca, Casablanca, Morocco

Investigation of the Performance of Microtencel/Hemp Blended Fibres for Fabric Production
Denizhan, Derya (1); Babaarslan, Osman (2); Habib, Ahsan (2,3)
Organization(s): 1: CALIK DENIM, Turkey (Türkiye); 2: Cukurova University, Engineering Faculty; 3: Department of Textile Engineering Management, Bangladesh

Analysis of Job Satisfaction in an Industrial Environment: A Case Study of the MACO Garment Company*
Bahria, Hana (1,2); Babay, Hanêne (3); Jaffel, Nahed (1,4); Jamai, Fredj (5); Babay, Amel (1,4)
Organization(s): 1: University of Monastir, Textile Engineering Laboratory (LGTex), LR11ES42, 5070 Ksar Hellal, Tunisia; 2: University of Monastir, National Engineering School of Monastir, Tunisia;3: Faculty of economic sciences and management, Tunis 4: Department of Textile Engineering, ISET Ksar Hellal, Tunisia; 5: MACO company, Monastir, Tunise

The Evolution of Product Quality Prediction Systems in Manufacturing: A Systematic Mapping Review from Prediction to Explainability and Causality*
Moussaid, Asmaâ; Meddaoui, Anwar and Sebtaoui Fatimazahra
Organization(s): Laboratory for Intelligent Systems, Industrial and Mechanical Engineering, ENSAM, Casablanca, Morocco

10:55 – 11:30

BREAK

Coffee break

Industry exhibition, Posters exhibition

ROOM
Hall, Room 4

11:30 – 12:35

WORKSHOP

Session 2, Workshop Design, Fashion and Digital Clothing

Chairperson: Delia Dumitrescu

ROOM
Room 3



Chairperson: Delia Dumitrescu

Invited conference: Delia Dumitrescu, Advances in the Understanding of Hybrid Textile Processes: Materiality, Embodiment, and Craftsmanship

Digital Material Craftsmanship in Knitwear: a hybrid workflow for knit jacquard between design, computation, and fabrication*
Fumagalli, Michele; Motta, Martina
Organization(s): Politecnico di Milano, Italy

Direct 3D Printing on Stretch Textiles for Compression Garments: Effect of TPU Pattern Configuration on Residual Deformation
Liza Černiavskaja, Ana; Ancutienė, Kristina; Kuncius, Tomas
Organization(s): Kaunas University of Technology, Lithuania

Textile integrated magnetic scanning system for custom foot orthosis design
Féry, Corentin (1); Bieri, Sara (2); Weger, Feline (2); Chouchene, Sarah (3); Lambert, Manon (2,3); Madec, Morgan (3); Hebrard, Luc (3); Ruepp, Thomas (1); Pascal, Joris (2)
Organization(s): 1: BellwaldTEC, Switzerland; 2: School of Life Sciences FHNW, Switzerland; 3: Laboratoire ICube, France

12:35 – 14:00

BREAK

Lunch break and group photography

Buffet, Posters and Industry exhibitions

ROOM
Hall

14:00-15:05

PARALLEL WORKSHOP

Session 3, Workshop Multiscale elaboration of customized fibrous materials

ROOM
Room 3



Chairperson: François Boussu

Invited conference: François Boussu, 3D Woven Fabrics as Impact-Resistant Solutions

Made-in-Canada lyocell fibre: Scaling up from microreactor to prototyping spinning line*

Dolez, Patricia I.; Gurave, Pramod M.; Himat, Abdelhamid S.; Sayed, Md Abu; Noor, K M Abdun; Ahmed, Khalid; Haddis, Dagem Z.; Hailu, Frehiwot T.; Lawson, Lelia; Souto, Bernardo Araujo; Batcheller, Jane; Bressler, David C.

Organization(s): University of Alberta, Canada

Development of Advanced Phosphate Glass Fibers for Composite Applications*

El Bouchti, Mehdi (1); Saloumi, Nezha (1); Daki, Iliass (1); Yousfi, Mohamed (4); Oumam, Oumam (2); Hannache, Hassan (3); Cherkaoui, Omar (1)

Organization(s): 1: ESITH, Morocco; 2: UH2C, Morocco; 3: UM6P, Morocco; 4: INSA Lyon

Effects of additives on the rheological behavior, thermal properties, and melt-spinning performance of polybutylene succinate*

Gizem Ceylan Türkoğlu (1); Arda Ertuğrul (2); Mert Işılay (1,2); Oylum Çolpankan Güneş (3) ; Mert Yücetürk (4) ; Mohammad Ali Tavanaie (5) ; M. Özgür Seydibeyoğlu (6) ; Mohammadreza Naeimirad (7) ; Gökhan Erkan (1) ; Ümit Halis Erdoğan (1)

Organization(s): 1: Faculty of Engineering, Department of Textile Engineering, Dokuz Eylül University, İzmir, Türkiye; 2: Graduate School of Natural and Applied Sciences, Department of Textile Engineering, Dokuz Eylül University, İzmir, Türkiye; 3: Faculty of Engineering, Department of Metallurgical and Materials Engineering, Dokuz Eylül University, İzmir, Türkiye; 4: Budin Group, İzmir, Türkiye; 5: Amirkabir University of Technology, Tehran, Iran; 6: Department of Metallurgical and Materials Engineering, İzmir Katip Çelebi University, İzmir, Türkiye; 7: Senbis Polymer Innovations B.V., Eerste Bokslootweg 17, 7821 AT Emmen, The Netherland

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14:00-15:30

PARALLEL WORKSHOP

Session 4, Workshop Design, Fashion and Digital Clothing

ROOM
Room 4



Chairperson: Delia Dumitrescu

Dynamic Leg Measurement for Customized Orthoses: An automated Tool for 4D Scan Data*

Römer, Lilly; Hoßfeld, Jacob; Kyosev, Yordan

Organization(s): Chair of Development and Assembly of Textile Products; Dresden University of Technology, Germany

3D printed textile

Diak, Viktorija

Organization(s): Kauno kolegija, Lithuania

Toward an Ontology of Industrial Garment Manufacturing Processes*

Gabin Orhon, Timea Banfalvi, Xuyuan Tao, Xavier Legrand and Sébastien Thomassey

Univ. Lille, ENSAIT, ULR 2461 -GEMTEX - Ge nie et Mate riaux Textiles, F-59000 Lille, France

Mycelium-Based Bio-Synthetic Leather for Functional Accessory Design*

Kalkan, İsmet Ege (1); Demirci, Elanur (1); Emekdar Karaman, Elçin (1); Aksoy Oral, Günseli (2); Tiryaki, Nurcan (2); Günay, Cansu (2); Temiz Dişlioğlu, Figen (3); Şahin, Umut Kıvanç (1)

Organization(s): 1: Istanbul Technical University, Department of Textile Engineering, Türkiye; 2: Vakko, Nakkaştepe Design Center, İstanbul / Türkiye; 3: Vakko, Esenyurt Design Center, İstanbul / Türkiye

Clothing detection on 4D scan series*

Kyosev, Yordan; Pfau, Johannes; Römer, Lilly

Organization(s): TU Dresden, ITM, Chair of Development and Assembly of Textile Products, Germany

As a Matter of Fashion: A Roundtable on Digital Fashion and the 'End' of Physical Cloth

Koohnavard, Saina; Tepe, Jan

Organization(s): University of Borås, Sweden

15H15 – 15H40

BREAK

Coffee break

Industry exhibition, Posters exhibition

ROOM
Hall

15:40-17:15

PARALLEL WORKSHOP

Session 5, Workshop European Project I-TexGeo

ROOM
Room 3



Chairperson: Senem Kursun

Invited conference Senem Kursun, IoT Supported Electronic Geotextiles for Sustainable and Smart Precision Agriculture (I-TEXGEO

Geotextile-based soil moisture sensor for agriculture applications*

Tekcin, Meltem (1); Bavil Khabbaz, Ahad (2,3); Sümer, Bilsay (4); Koç, İlker Murat (2,4,5); Palandoken, Merih (6); Cochrane, Cédric (7); Koncar, Vladan (7); Kursun, Senem (2,3,5)

Organization(s): 1: Department of Textile Engineering, Istanbul Technical University, 34437, Türkiye; 2: Department of Mechanical Engineering, Istanbul Technical University, 34437, Türkiye; 3: CETEX | Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, Türkiye ; 4: SAGAY Engineering, Hacettepe University TEKNOKENT, Türkiye ; 5: Center for Mechatronics Research and Application Center, Istanbul Technical University, Türkiye; 6: Department of Electronics, İzmir Katip Çelebi University, İzmir, 35620, Türkiye; 7: Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Genie et Materiaux Textiles, F-59000 Lille, France;

Jute-based piezoresistive soil compaction sensor*

Yilmaz, Ayse Feyza (1,2); Bavil Khabbaz, Ahad (1,2); Cochrane, Cédric (3); Koç, İlker Murat (1,4,5); Koncar, Vladan (3); Tekcin, Meltem (6); Kursun, Senem (1,2,4)

Organization(s): 1: Department of Mechanical Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 2: CETEX | Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye; 3: Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Genie et Materiaux Textiles, F-59000 Lille, France; 4: Center for Mechatronics Research and Application Center, Istanbul Technical University, Istanbul, Türkiye; 5: SAGAY Engineering, Hacettepe University TEKNOKENT, Türkiye ; 6: Department of Textile Engineering, Istanbul Technical University, 34437, Türkiye

Redundant jute-based soil temperature sensors*

Yilmaz, Ayse Feyza (1,2); Bavil Khabbaz, Ahad (1,2); Cochrane, Cédric (3); Koç, İlker Murat (1,4,5); Koncar, Vladan (3); Tekcin, Meltem (6); Kursun, Senem (1,2,4)

Organization(s): 1: Department of Mechanical Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 2: CETEX | Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye; 3: Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Genie et Materiaux Textiles, F-59000 Lille, France; 4: Center for Mechatronics Research and Application Center, Istanbul Technical University, Istanbul, Türkiye; 5: SAGAY Engineering, Hacettepe University TEKNOKENT, Türkiye ; 6: Department of Textile Engineering, Istanbul Technical University, 34437, Türkiye

Textile-antenna design and implementation using various fabrication techniques*

Repoulias, Aristeidis (1); A. Mytilinaios, Stylianos (1); Palandoken, Merih (2); Tekcin, Meltem (3); Yilmaz, Ayse Feyza (4); Khabbaz Bavil, Ahad (4); Kılıç, Burak (4); Kursun Bahadir, Senem (4,5,6); Vassiliadis, Savvas (1)

Organization(s): 1: Department of Electrical and Electronics Engineering, University of West Attica, 12244, Athens, Greece; 2: Department of Electronics, İzmir Katip Çelebi University, İzmir, 35620, Türkiye; 3: Department of Textile Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 4: Department of Mechanical Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 5: Center for Mechatronics Research and Application Center, Istanbul Technical University, İstanbul, Türkiye; 6: CETEX - Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye

15:40-16:25

PARALLEL WORKSHOP

Session 6, Workshop Multiscale elaboration of customized fibrous materials

ROOM
Room 4



Chairperson: François Boussu

Tensile and Recovery Properties of Tubular Fiber Composite Shear-Stiffening Gel

Kobayashi, Shunichi (1,2); Kawakami, Koshin (2); Ishidou, Teru (2)

Organization(s): 1: Faculty of Textile Science and Technology, Shinshu University, Ueda, Japan; 2: Graduate School of Science and Technology, Shinshu University, Ueda, Japan

Development of Bacterial Cellulose-Grown Nonwoven Composite Structures*

Yıldız, Elif Nihan; Engin Sağırlı, Fatma Zehra

Organization(s): Marmara University, Turkey (Türkiye)

Dynamic crack propagation in protective textiles

Meghana, Kammeta; Mukhopadhya, Arunangshu; Sikka, Monica

Organization(s): DR BR Ambedkar National Institute of technology, Jalandhar, Punjab ,India

17:15-18:20

WORKSHOP

Session 7, Workshop Textile electronics: Cedric Cochrane and Xuyuan Tao

ROOM
Room 3



Invited conference Xuyuan Tao, E-textiles for sport and healthcare applications

Influence of washing cycles on the electromechanical properties of embroidered textile NFC antennas*
Garnier, Baptiste; Cochrane, Cédric; Koncar, Vladan
Organization(s): Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Génie et Matériaux Textiles, France

Enhanced Piezoelectric PVDF-HFP/PMMA/$BaTiO_3$ Nanocomposites for Wearable Smart Textiles and Energy Harvesting Applications
Oumghar, Khadija
Organization(s): ESITH / Hassan II University of casablanca, Morocco

Impact of Conductive Layer Thickness on the Electrical and Electromagnetic Characteristics of Screen-Printed Textile Antennas
Aghadavoud Marnani, Roya (1); Gunnarsson, Emanuel (1); Herndl, Thomas (5); Seoane, Fernando (1,2,3,4); Nierstrasz, Vincent (1)
Organization(s): 1: Department of Textile Technology, Faculty of Textiles, Engineering and Business, University of Borås, SE-501 90 Borås, Sweden; 2: Department of Clinical Science, Intervention and Technology, Karolinska Institute, 171 77 Stockholm, Sweden; 3: Department of Clinical Physiology, Karolinska University Hospital, 171 76 Stockholm, Sweden; 4: Department of Medical Technology, Karolinska University Hospital, 171 76 Stockholm, Sweden; 5: Infineon Technologies Austria AG, Babenbergerstraße 10, 8020 Graz, Austria

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WEDNESDAY
November 18, 2026

8:15 – 9:00	BREAK **Check-in** Check-in, | Industry exhibition, | Posters exhibition	ROOM Hall
9:00 – 10:00	KEYNOTE **Academic Keynote 1** (Chair Cedric Cochrane) **Prof. Frederic Heim** **Fibers for Cardiovascular Applications: Potential and Limits**	ROOM Room 3
10:00 – 11:00	KEYNOTE **Industry Keynote 1** (Chair Xuyuan Tao)  **Mrs Valérie Brunet, Style 3D software, From digital to physical AI**	ROOM Room 3
11:00 – 11:30	BREAK **Coffee break** Industry exhibition, Posters exhibition	ROOM Hall, Room 4

11:30-12:50

PARALLEL WORKSHOP

Session 8, Workshop Medical Applications for Intelligent textile Structures

ROOM
Room 3



Chairperson: Azadeh Yadollahi

Invited conference Azadeh Yadollahi, Medical e-textiles

Assessing Musculoskeletal Disorders in Textile Operators Through a Cross-Sectional Approach Integrating Ergonomic Analysis and Operator Perceptions*

Bahria, Hana (1,2); Jaffel, Nahed (1,3); Babay, Amel (1,3); Ostrosi, Egon (4)

Organization(s): 1: University of Monastir, Textile Engineering Laboratory (LGTex), LR11ES42, 5070 Ksar Hellal, Tunisia; 2: University of Monastir, National Engineering School of Monastir, Tunisia; 3: Department of Textile Engineering, ISET Ksar Hellal, Tunisia; 4: ELLIADD-ERCOS, University of Technology of Belfort-Montbéliard (UTBM), EA4661, 90010 Belfort, France

Washability Assessment of Dry Textile Electrodes in 3T Cardiac MRI*

Laghaei, Mina (1); Cochrane, Cédric (1); Tao, Xuyuan (1); Odille, Freddy (2,3); Koncar, Vladan (1)

Organization(s): 1: Univ. Lille, ENSAIT, ULR 2461 – GEMTEX – Génie des Matériaux Textiles, F-59000 Lille, France; 2: IADI (U1254), Université de Lorraine and Inserm, F-54000 Nancy, France; 3: CIC-IT 1433, CHRU Nancy, Université de Lorraine and Inserm, F-54000 Nancy, France

Development and Characterization of Sisal Fiber and Bio-Silica Reinforced Epoxy Composite for Prosthetic Socket

Kokeb Brhane (1) Goitom Tesfay (2)

Organization(s) : 1 : Textile and Garment engineering, Mekelle University, Mekelle, Ethiopia ; 2 :Material Science and engineering, Mekelle University, Mekelle, Ethiopia

Three-dimensional textile dry electrodes for improving skin contact

Eliot, Claire; Dormois, Thibault; Cochrane, Cédric; Koncar, Vladan

Organization(s): ENSAIT, France

Computer Vision-Based Structural Analysis and Statistical Quality Assessment of Textile Medical Implants*

Andrey Dyagilev, Saskia Hesse, Pauline Riedl, Caroline Emonts and Thomas Gries

Organization(s): Institut fu r Textiltechnik (ITA), RWTH Aachen University, Aachen, Germany

11:30-12:45

PARALLEL WORKSHOP

Session 9, Workshop Sustainable Development in the Textile & Apparel Industries

ROOM
Room 4



Chairperson: Ahmad Ibrahim

Low-pressure nitrogen and oxygen plasma effects on textile wettability and microfiber release

Gliaudelyte-Ulrike, Ugne (1); Skurkyte-Papieviene, Virginija (2); Baltusnikaite-Guzaitiene, Julija (1,2)

Organization(s): 1: Kaunas University of Technology, Lithuania; 2: Center for Physical Sciences and Technology, Kaunas, Lithuania

Sustainable Xerogel-Coated Poly-Cotton Fabrics for Advanced Thermal Insulation Applications

Assal, Mohamed (1,2); El Bouchti, Mehdi (1); Cherkaoui, Omar (1); El Bouari, Abdeslam (2)

Organization(s): 1: REMTEX - ESITH, Morocco; 2: LCPMA - UNIVH2C - FSBM, Morocco

Valorization of PE-Based Textile and Packaging Film Waste for Sustainable Textile Applications

Fazli, Ali

Organization(s): CTT Group, Canada

Optimization of the Fiber Extraction Process from Date Palm Rachis

Nouira, Ikbel (1); Debbabi, Faten (2); Salem, Mohamed Medhat (3); Boussu, François (3); Ben Abdessalem, Saber (4)

Organization(s): 1: Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Genie et Materiaux Textiles, F-59000 Lille, France/National Engineering School of Monastir (ENIM), Materials, Processes and Textile Engineering Laboratory (MPTEX), Tunisia; 2: National School of Engineers of Monastir,Ibn ElJazzar Avenue5019 Monastir, Tunisia; 3: Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Genie et Materiaux Textiles, F-59000 Lille, France; 4: National Engineering School of Monastir (ENIM), Materials, Processes and Textile Engineering Laboratory (MPTEX), Tunisia

Exploring the Potential of Tunisian Clay in Sustainable Cotton Dyeing: Effect of dyeing pH

Ben Abdallah, Amal (1); Hedfi, Hassen (2); Hamdaoui, Mohamed (1)

Organization(s): 1: Textile Materials and Processes Research Unit (MPTex), UR17ES33, University of Monastir, National Engineering School of Monastir (ENIM), Tunisia; 2: Mechanical Engineering Laboratory (LGM), LR99ES32, University of Monastir, National Engineering School of Monastir (ENIM), Tunisia

12:50 – 14:00

BREAK

Lunch break

Buffet, Posters and Industry exhibitions

ROOM
Room 4, Hall

14:00 – 14:30

INDUSTRY

Industry pitch

(Chair François Boussu)

Meet the exhibitors and ESITH (Seloua ALOUAOUI)

ROOM
Room 3

14:30-15:50

PARALLEL WORKSHOP

Session 10, Workshop Sustainable Development in the Textile & Apparel Industries

ROOM
Room 3



Chairperson: Ahmad Ibrahim

Invited conference Ahmad Ibrahim, Advanced Eco-Friendly Solutions for Textile Dyeing and Finishing

Investigating the mechanical properties of natural-fibre semi-finished products to substitute polypropylene of Flexible Intermediate Bulk Containers (FIBCs)*

Giraud, Kim Lê; Chalard, Margot; Ferreira, Manuela; Benkirane, Romain; Labanieh, Ahmad Rashed; Soulat, Damien

Organization(s): Univ. Lille, ENSAIT ULR 2461-GEMTEX–Génie et Matériaux Textiles, F-59000 Lille, France

Reduced Microfiber Release from Denim via Graphene Functionalization

Celayir, Emre (1,2); Babaarslan, Osman (2); Habib, Ahsan (2,3)

Organization(s): 1: Çalık Denim, Türkiye; 2: Cukurova University, Türkiye; 3: Bangladesh University of Textiles, Dhaka, Bangladesh

Facilitate the textiles recycling by replacing elastane with melt-spun TPE filaments*

Conrath, Hélène; Cayla, Aurélie; Rault, François

Organization(s): Gemtex - Génie et matériaux textile, Univ. Lille - ENSAIT - ULR 2461, Lille, France

Challenges in ASTM D4935 Testing of Conductive Textiles: Effects of Incomplete Sample Coverage and Specimen Joining on Shielding Effectiveness*

Tunakova, Veronika

Organization(s): Technical University of Liberec, Czech Republic (Czechia)

14:30-16:00

PARALLEL WORKSHOP

Session 11, Workshop Medical Applications for Intelligent textile Structures

ROOM
Room 4



Chairperson: Azadeh Yadollahi

Verification of Respiratory Conditions Using PPG Sensor for the Development of Smart Textile for Screening COPD Patients*

Koyama, Shouhei (1); Hirasawa, Shun (1); Nagaoka, Hiroshi (2); Nakata, Yoshiaki (2); Tachikawa, Tomoyuki (3); Nakamura, Yuika (4); Yasuo, Masanori (4)

Organization(s): 1: Faculty of Textile Science and Technology, Shinshu University, Japan; 2: SIgntle Inc., Japan; 3: Nichiban Co., Ltd., Japan; 4: School of Health Science, Shinshu University, Japan

Leather for Medical Footwear, a Sustainability Evaluation*

Gaidau, Carmen (1); Ghebuta, Florin (2); Chiriac, Oana- Andreea (2); Radulescu, Ion Razvan (1); Costea, Mariana (3)

Organization(s): 1: R&D National Institute for Textiles&Leather, Romania; 2: SC Activ Ortopedic SRL, Bucharest, Romania; 3: Faculty of Industrial Design and Business Administration, "Gheorghe Asachi" Technical University of Iasi, Romania

Optimization of Upper-Arm ECG Sensor Placement for Cardiac Rehabilitation

Mulot--Hauriez, Mathys (1); Hoque, Md. Saiful (1); Sadatamin, Delaram (1); Yadollahi, Azadeh (1,2)

Organization(s): 1: University of Toronto, Canada; 2: KITE, University Health Network, Canada

Can Smart Textile ECG Track Heart Rate during Central Apnea and Arousal Events?

Sadatamin, Delaram (1,2); Md. Hoque, Saiful (1,2); Yadollahi, Azadeh (1,2)

Organization(s): 1: Biomedical Engineering, University of Toronto, Canada; 2: KITE Research Institute, University Health Network, Canada

Non-Invasive Characterization of Intrathoracic Pressure Dynamics Using Thoracoabdominal Phase Synchrony

Aftab, Sania (1,2); Assadi, Atousa (1,2); Akbari, Shiva (1,2); Yadollahi, Azadeh (1,2)

Organization(s): 1: Institute of Biomedical Engineering, University of Toronto, Toronto, Canada; 2: KITE-Toronto Rehabilitation Institute, University Health Network, Toronto, Canada

Fibrillation of lyocell fibers due to maintenance*

Novotná, Jana

Organization(s): Technical University of Liberec, Czech Republic (Czechia)

15:50 – 16:10

BREAK

Coffee break

Industry exhibition, Posters exhibition

ROOM
Room 4, Hall

16:10 – 16:50

POSTERS

Poster pitches

(Azadeh Yadollahi)

ROOM 3

Enhanced Hydrophobicity and Mechanical Properties of Cotton Fabrics t Natural Wax Coatings

Siviwe Artwell Mfuywa, Mohan Turup Pandurangan

Organization(s): Durban University of Technology, South Africa

A Comparative Study on the Biodegradability of PES, PA, and CO under Simulated Environments

Carmen Llorente del Rio, Supervisor: Prof. Dr. Marilés Bonet Aracil, Counsellors: Ainhoa Sánchez Martínez

Organization(s): Universitat Politecnica de Valencia, Spain

Experimental evaluation of a textile-based antenna for data transmission in sustainable and smart precision agriculture

Aristeidis Repoulias (1) , Stylianos A. Mytilinaios (1) , Merih Palandoken (2) , Meltem Tekcin , Senem Kursun Bahadir (4,5,6) , Savvas Vassiliadis (1)

Organization(s):1 Department of Electrical and Electronics Engineering, University of West Attica, At Greece
2 Department of Mechanical Engineering, System Dynamics and Control, Istanbul Technical University, Istanbul, 34437, Tu rkiye; Center for Mechatronics Research and Application, Istanbul Technical University, Istanbul, Tu rkiye; CETEX | Center of Excellence for Textiles, I TU ARI TEKNOKENT-Arı 1, 34467, I stanbul, Tu rkiye
3 Department of Electrical and Electronics Engineering, I zmir Katip Çelebi University, Izmir, Turkiye

Preliminary Electrical Characterization of Flexible Silver/SWCNT Electrodes for Agricultural Applications*

Kılıç, Burak (1,2); Tekcin, Meltem (3); Sümer, Bilsay (4); Koç, İlker Murat (1,4,5); Koncar, Vladan (6); Kursun, Senem (1,5,7)

Organization(s): 1: Department of Mechanical Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 2: Department of Mechanical Engineering, Işık University, İstanbul, 34980, Türkiye; 3: Department of Textile Engineering, Istanbul Technical University, Istanbul, 34437, Türkiye; 4: SAGAY Engineering, Hacettepe University TEKNOKENT, 08800, Ankara, Türkiye; 5: Center for Mechatronics Research and Application Center, Istanbul Technical University, Istanbul, Türkiye; 6: Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Genie et Materiaux Textiles, F-59000 Lille, France; 7: Univ. CETEX | Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye

The use of İranian carpet pattern motifs in clothing fashion

Baharnaz Bazyar

Organization(s) : Nişantaşi University Graduate School Of Education, Iran

Advanced Eco-Friendly Solutions for Textile Dyeing and Finishing

Ahmad Ibrahim, Hamid Lamoudan, Justine Decaens and Valerio Izquierdo

Organization(s) : CTT Group (3000 Avenue Boulle), J2S7Z5, Saint-Hyacinthe, Canada

16:10 – 16:55

ROOM 3

A Quantitative Framework for Integrating Textile Inductive Electrodes in Automotive Respiratory Monitoring*

James Elber Duverger 1, Victor Bellemin 2, Patricia Forcier 3, Justine Decaens 3, Ghyslain Gagnon 2 and Alireza Saidi 1
Organization(s) : 1 Institut de Recherche Robert-Sauvé en Santé et en Sécurité du Travail, Montréal, Ca
2 Department of Electrical Engineering, EZ cole de technologie supérieure, Montréal, Canada
3 CTT Group, Saint-Hyacinthe, Canada

Analysis of visual sources of women's garments from the second half of the 19th century for virtual 3D reconstruction

Lucie Görlichová (1)*, Andreja Rudolf (1) and Polona Vidmar (2)
Organizations : 1 Chair of Textile Materials and Design, Faculty of Mechanical Engineering, University o Maribor, Maribor, Slovenia
2 Department of Art History, Faculty of Arts, University of Maribor, Maribor, Slovenia

Bio-construction of a leather substitute from forest residues*

Fatma Zehra Engin Sagirli, Ali Beyit, Abdulkadir Pars
Organization(s) : 1 Department of Textile Engineering, Faculty of Technology, Marmara University, Istanbul, Turkey

Flexible Printed Sensor for Salinity Monitoring in Precision Agriculture*

Neghabi, Erfan (1); Tekcin, Meltem (2); Kural, Ayhan (1,3); A. Mytilinaios, Stylianos (4); Vassiliadis, Savvas (4); Kursun, Senem (1,3,5)
Organization(s): 1: Department of Mechanical Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 2: Department of Textile Engineering, Istanbul Technical University, 34437, Türkiye ; 3: Center for Mechatronics Research and Application Center, Istanbul Technical University, Istanbul, Türkiye
4: Department of Electrical and Electronics Engineering, University of West Attica, Athens, Greece ; 5: CETEX | Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye

Carbon-impregnated geotextiles for pesticide removal in agricultural soil–water systems

Meltem Tekcin(1); Eray Sudasdemir (2); Tayfun Güven (2); İlker Murat Koç (3,4); Vladan Koncar (5); Senem Kursun (3,4,6)
Organization(s): 1: Department of Textile Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 2: GELİSİM Tekstil A.Ş, Esenyurt, Istanbul, 34522, Türkiye; 3: Department of Mechanical Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 4: Center for Mechatronics Research and Application Center, Istanbul Technical **University**, *İstanbul, Türkiye; 5: Univ. Lille, ENSAIT, ULR 2461 - GEMTEX - Genie et Materiaux Textiles, F-59000 Lille, France; 6: CETEX | Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye*

Turning Wool Waste into Value: A Green Natural Deep Eutectic Solvent for Sustainable Keratin Recovery from Textile By-products

Mohamed Belhajja (1); Omar Cherkaoui (2); Khalid Bougrin (1,3) `
Organization(s): 1: Mohammed V University in Rabat, Morocco; 2: Higher School of Textile and Clothing Industries (ESITH), 20230, Casablanca, Morocco; 3: Mohammed VI Polytechnic University (UM6P), Benguerir, Morocco

Labelling structure for textile products considering differentiated eco-design aspects

Sabrina Mauter (1); Dominique Adolphe (2); Markus Muschkiet (1)
Organization(s): 1: Hochschule Niederrhein University of Applied Sciences, Germany; 2: Université de Haute-Alsace, France

Moisture preconditioning as a strategy to improve freeze-thaw crosslinking of electrospun PVA membranes for medical applications

Celia Della Rocca (1); Elham Mohsenzadeh (1,2);Yesim Oguz Gouillart (1,2); Hayriye Gidik (1,2)
Organization(s): 1: Univ. Lille, ENSAIT, ULR 2461 – GEMTEX – Génie et Matériaux Textiles, F-59000, Lille, France; 2: Junia, F-59000, Lille, France

Biomechanical Analysis of Plantar Pressure for the Development of Orthopedic Footwear with Antimicrobial Properties

Oana-Andreea Chiriac(1,2); Carmen Gaidau (3); Florea Ghebuta (1); Mariana Costea (4); Cosmin-Andrei Alexe (3)

Organization(s): 1: Activ Ortopedic, Romania; 2: National University of Science and Technology Politehnica, Faculty of Medical Engineering, Bucharest, Romania; 3: Material Research and Investigations Department, The Research and Development National Institute for Textiles and Leather, Bucharest, Romania; 4: Gheorghe Asachi"Technical University, 700050, Iasi, Romania

16:55 – 17:30

PANEL

Pannel discussion,

E-textiles potential for medical applications

Moderator: Azadeh Yadollahi, KITE | | Participants: TBA

UHN Canada's Hospital

ROOM
Room 3

16:00 – 18:00

Project MICROPLAITE

Flash presentation (30 min) :
Textiles for Human Repair: From Fibres to Living Models
First results from the Interreg FWVL MICROPLAITE project (Denis VANDORMAEL)

Interactive session *:*
Meet the all Interreg MICROPLAITE consortium (Sirris, Centexbel, KULAK, UMons, ENSAIT, Eurasanté, URCA). Samples, and demonstrator.

Moderator: Aurélie Cayla, ENSAIT, University of Lille
|Participants: TBA

ROOM
Room 4

WEDNESDAY EVENING

Gala diner

19H30 – 22H30



HÔTEL**** RESTAURANT | Couvent des Minimes | ALLIANCE LILLE

VENUE

Hôtel Couvent des Minimes - Alliance Lille, 17 Quai du Wault, 59800 Lille

HÔTEL**** RESTAURANT | Couvent des Minimes | ALLIANCE LILLE

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THURSDAY
November 19, 2026

8:15 – 9:00	BREAK **Check-in** Check-in, | Industry exhibition, | Posters exhibition	ROOM Hall
9:00 – 10:00	KEYNOTE **Industry Keynote 2** (Chair Cedric Cochrane)  **Dr. Julien Payen, Lattice Medical, GEMTEX success story,**	ROOM Room 3
10:00 – 11:00	KEYNOTE **Academic Keynote 2** (Chair Xuyuan Tao)  **Professor Serge Bourbigot, ERC SyG FireSpace, fire safety in space**	ROOM Room 3
11:00 – 11:30	BREAK **Coffee break** Industry exhibition, Posters exhibition	ROOM Hall

11:30-12:35 | PARALLEL WORKSHOP | **Session 12, Workshop AI-based textile applications** | ROOM **Room 3**



Chairperson: Xianyi Zeng

Invited conference Xianyi Zeng, Human-Centered AI-Driven Design and Management for Sustainable Textile Development

Smartwear Revolution: Technology toolbox for improved trunk stability and support*

Dolez, Patricia (1,6); Islam, Md. Rashedul (1); Kosareva, Elena (1); Moncy, Melwin (1); Brown, Emma (2); Ben Khalifa, Hamdi (1); Jantz, Bethany (1); Mohamadi, Amirmahdi (1); Prochner, Isabel (3); Elias, Anastasia (1,6); Sameoto, Dan (1,6); Kelleher, Leila (4); Sanchez, Vanessa (2); Tavakoli, Mahdi (1,6); Decaens, Justine (5); Mushahwar, Vivian (1,6)

Organization(s): 1: University of Alberta, Canada; 2: Rice University, USA; 3: Virginia Polytechnic Institute and State University, USA; 4: Toronto Metropolitan University, Canada; 5: CTT Group, Canada; 6: Institute for Smart, Augmentative and Restorative Technologies and Health Innovations (iSMART), Canada

A Sensor-Aware Digital Twin and Deep Reinforcement Learning Framework for Irrigation Pump Control with a Geotextile Humidity Sensor*

Bahadir, Erdem (1); Atasoy, Batuhan (2); Ademoğlu, Almir (1,4); Mytilinaios, Stylianos A. (3); Vassiliadis, Savvas (3); Koç, İlker Murat (1,4,5); Tekcin, Meltem (6); Palandoken, Merih (7); Kursun, Senem (1,4,8)

Organization(s): 1: Department of Mechanical Engineering, System Dynamics and Control, Istanbul Technical University, Istanbul, 34437, Türkiye; 2: Department of Mechatronics Engineering, Istanbul, 34522, Türkiye; 3: Department of Electrical and Electronics Engineering, University of West Attica, Athens, Greece; 4: Center for Mechatronics Research and Application Center, Istanbul Technical University, Istanbul, Türkiye; 5: SAGAY Engineering, Hacettepe University TEKNOKENT, 08800, Ankara, Türkiye; 6: Department of Textile Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye ; 7 : Department of Electrical and Electronics Engineering, , İzmir Katip Çelebi University, İzmir, 35620, Türkiye ; 8 : CETEX | Center of Excellence for Textiles, İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye

A Hierarchical Fuzzy Logic Irrigation Controller for Precision Agriculture: Toward Textile-Sensor Integration*

Bahadir, Erdem (1); Atasoy, Batuhan (2); Ademoglu, Almir (1); Mytilinaios, Stylianos A. (3); Vassiliadis, Savvas (3); Koç, İlker Murat (1,4,5); Tekcin, Meltem (6); Palandoken, Merih (7); Kursun, Senem (1,4,8)

Organization(s): 1: Department of Mechanical Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 2: Department of Mechatronics Engineering, Istanbul Technical University, 34522, İstanbul, Türkiye; 3: Department of Electrical and Electronics Engineering, University of West Attica, Athens, Greece; 4: Center for Mechatronics Research and Application Center, Istanbul Technical University, İstanbul, Türkiye; 5: SAGAY Engineering, Hacettepe University TEKNOKENT, 08800, Ankara, Türkiye; 6: Department of Textile Engineering, Istanbul Technical University, İstanbul, 34437, Türkiye; 7: Department of Electrical and Electronics Engineering, , İzmir Katip Çelebi University, İzmir, 35620, Türkiye; 8: CETEX | Center of Excellence for Textiles İTÜ ARI TEKNOKENT-Arı 1, 34467, İstanbul, Türkiye

11:30-12:15 | PARALLEL WORKSHOP | **Session 13, Workshop Textile electronics: Cedric Cochrane** | ROOM **Room 4**



Experimental and Numerical analysis of unstable behavior of melt blowing process

Takarada, Wataru; Kikutani, Takeshi

Organization(s): Shinshu University, Japan

Embroidered microwave transmission lines with bandpass filter functionality

Radulescu, Ion Razvan (1); Dinca, Laurentiu (1); Perdum, Elena (1); Visileanu, Emilia (1); Negroiu, Rodica (2); Ciobanu, Luminita (3); Talpa, Andreea (3)

Organization(s): 1: The National R&D Institute for Textiles and Leather INCDTP Bucharest, Romania; 2: Centre of Technological Electronics and Interconnection Techniques, NUST Politechnica, Bucharest, Romania; 3: Centre for R&I in textiles and fashion SMART-Tex-IS, Technical University Iasi, Faculty DIMA, Iasi, Romania

Investigating the electrical junction between different conductive fibres via electrochemical methods

Huniade, Claude (1); Gunnarsson, Emanuel (2); Persson, Nils-Krister (1)

Organization(s): 1: Polymeric E-textiles, The Swedish School of Textiles, University of Borås, 501 90 Borås, Sweden; 2: Textile Technology, The Swedish School of Textiles, University of Borås, 501 90 Borås, Sweden

12:30 – 13:00 | BREAK | **Lunch break** | ROOM **Hall, Room 4**

Buffet, Posters and Industry exhibitions

13:00 – 13:15

CEREMONY

Conference closing

V. Koncar, C. Cochrane, X. Tao | Award ceremony | Best student's poster and best presentation

ROOM
Room 3

14:00 – 16:00

SOCIAL

Social event

Guided tour in English, Villa Cavrois https://www.villa-cavrois.fr



Place
60 Av. du Président John Fitzgerald Kennedy,
59170 Croix,
France

Designed between 1929 and 1932, the villa Cavrois is architect Mallet-Stevens's most emblematic achievement. As such, it was listed as a historic monument in 1990, then purchased by the French government in 2001.

A LITTLE HISTORY

At the beginning of the 20th century, the Nord region was one of the most industrialized in France. Roubaix and Tourcoing were major centers of textile production, earning Roubaix the name "city of a thousand chimneys". **Cavrois-Mahieu**, founded in 1865, produced high-end fabrics for Parisian houses. By 1923, the company had five factories and nearly 700 employees.

Company owner **Paul Cavrois** decided to build a home for his family. In 1922-1923, he purchased a plot of land in Croix, **on the outskirts of Roubaix**. Since 1870, the industrial bourgeoisie had been moving their homes away from the factories, to enjoy a healthier environment and a better quality of life. The commune of Croix is home to imposing middle-class residences, veritable little castles, characterized by their neo-regionalist style. In this landscape, the modern silhouette of the villa designed by Robert Mallet-Stevens stands in stark contrast.



Vue aérienne de la Villa Cavrois
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