

2ND INTERNATIONAL TEXTILE AND FASHION CONGRESS (ITFC 2026)
ISTANBUL TECHNICAL UNIVERSITY
APRIL 28–29, 2026

28 APRIL 2026, TUESDAY

08:30-09:30	REGISTRATION & WELCOME COFFEE
09:30-10:00	TURKISH MUSIC RECITAL
10:00-11:00	OPENING SPEECHES (HALL A) PRESENTATION OF PLAQUES TO SPONSORS
KEYNOTE SPEAKERS	
11:00-11:30	KEYNOTE 1 - PROF. DR. VINCENT NIERSTRASZ NOVEL SUSTAINABLE ROUTES TO FUNCTIONAL AND SMART TEXTILES
11:30-12:00	KEYNOTE 2 - PROF. DR. GEORGIOS PRINIOTAKIS SYSTEMIC BIOMIMICRY AND HUMAN-CENTRIC RESILIENCE: ORCHESTRATING INDUSTRY 5.0 THROUGH SMART WEARABLES AND DYNAMIC ERGONOMICS
12:00-13:15	LUNCH Art Exhibition*

	HALL A	HALL B	HALL C
	SESSION 1 FASHION TECHNOLOGIES & DIGITALIZATION <i>Chair: Lecturer Dr. Belgin Grgn</i>	SESSION 2 ADVANCED MATERIALS & STRUCTURES <i>Chair: Prof. Dr. Emel Karaođlu</i>	SESSION 3 ADVANCED MATERIALS & STRUCTURES <i>Chair: Prof. Dr. Hale Karakaş</i>
13:15-13:30	FUTURETEX ISTANBUL FABRIC DESIGN COMPETITION ZLEM KAYA FASHION DESIGNER / MENTOR AT FUTURETEX ISTANBUL FABRIC DESIGN	SHAPING THE FUTURE OF DENIM: INNOVATION, RESPONSIBILITY AND PERFORMANCE ERAY KARADUMAN ÇALIŞ DENİM GENERAL MANAGER	BRINGING SUSTAINABLE MATERIALS TO MARKET: SCALABLE INTEGRATION INTO TEXTILE COLLECTIONS SLEYMAN İPEK PİLİMFİYE TEKSİL REGIONAL SALES&MARKETING MANAGER, RESEARCH&DEVELOPMENT MANAGER, SUSTAINABLE APPLICATIONS COORDINATOR
13:30-13:45	INNOVATIVE APPROACHES TO CONCEPTUAL COSTUME DESIGN IN CONTEMPORARY FESTIVALS: INTEGRATION OF LIGHTING TECHNOLOGIES, 3D PRINTING, AND DIGITAL ORNAMENTATION PARINAZ MEHİRİ KAHNAMOĐUEL , AYBEN PAKOLPAKÇIL	IMPROVING THE COMFORT PROPERTIES OF DENIM GARMENTS WITH SILICONE-BASED SOFTENERS NR BALCI , EBRU ÇALIŞKAN, AYRIN İBİŞ, ESRA TABAŞ ASILTRK	MORPHOLOGICAL AND CHEMICAL CHARACTERIZATION OF PACLITAXEL-LOADED ELECTROSPUN PCL SCAFFOLDS SUZAN ZDEMİR , JANSET ZTEMUR-SEZGİN, HANDE SEZGİN, İPEK YAŁÇIN-ENİŞ
13:45-14:00	THERMOGRAPHIC ANALYSIS OF SPORTS CAPS: EFFECTS OF VOLUMINOUS HAIR AND ABSENCE OF HAIR AS AN EXTENSION BY NAGAMATSU (2020) JAN CAZANJE SASSAZAWA , DR. ROSIMEİRİ NAOMI NAGAMATSU	RESEARCH ON THE PERFORMANCE OF YARNS AND FABRICS DESIGNED AND PRODUCED WITH NATURAL VEGAN FIBER BLENDS FOR SUSTAINABILITY SNHAN GNES , OSMAN BABAARSLAN	MAPPING THE INVISIBLE: A NOVEL APPROACH TO DETECT ADDITIVE DISTRIBUTION IN COMPOSITE FIBERS İLKAR KARAOĐLU, MERT YCETRK, MİT HALIS EDOĐAN
14:00-14:15	PREDICTING PHYSICAL PROPERTIES OF DENIM FABRICS FOLLOWING LOCAL BLEACHING USING POTASSIUM PERMANGANATE EBRU ÇALIŞKAN, CENK ŞAHİN, NR BALCI, ESRA TABAŞ ASILTRK, İBRAHİM ERDEM KALKAN	TECHNICAL PERFORMANCE AND ENVIRONMENTAL POTENTIAL OF TEXTILE-TO-TEXTILE RECYCLED PET YARNS IN AUTOMOTIVE SEAT COVER FABRICS SEMİH OYLAR, CEYDA UYANKIRTI , SELENAY ELİF İŞLER, BENAMİR FIDANCI, EMİR BALTACIOĐLU	PROCESS-STRUCTURE-PROPERTY RELATIONSHIPS IN SOLUTION-BASED EXTRUSION PRINTING OF PLA AND TPU ZLEM YKSEL , İKİLEM GCEK
14:15-14:30	ADVANCEMENTS IN TEXTILE SURFACE PILLING TESTING: IMPROVED EVALUATION METHOD USING UNIFORM DIGITAL IMAGING JURO ZIVCNIK , ANTONETA TOMLIENOVIĆ, IGOR ZJAKIĆ	DEVELOPMENT OF ANTITHROMBOTIC PCL/PVA-BASED ELECTROSPUN SURFACES FOR SMALL-DIAMETER VASCULAR GRAFTS JANSET ZTEMUR-SEZGİN , SUZAN ZDEMİR, HANDE SEZGİN, İPEK YAŁÇIN-ENİŞ	INVESTIGATION OF THE FUNCTIONALIZATION OF DENIM FABRICS WITH BOMATERIALS AND THEIR EFFECTS ON FABRIC PERFORMANCE AYSU BALIKCI , CEREN İŞİK, NR BALCI
14:30-14:45	A STUDY ON THE ADOPTION OF DIGITAL TECHNOLOGIES IN APPAREL RETAILING FAHEEM AHMAD , SANA SADAF, SHERAZ AHMAD		
14:45-15:00	COFFEE BREAK		

	HALL A	HALL B	HALL C
	SESSION 4 SMART TEXTILES <i>Chair: Prof. Dr. Ali Kiliç</i>	SESSION 5 INNOVATIVE FABRICS AND TECHNOLOGIES <i>Chair: Prof. Dr. mit Halls Edođan</i>	SESSION 6 INNOVATIVE FABRICS AND TECHNOLOGIES <i>Chair: Prof. Dr. Blent zipek</i>
15:00-15:15	PIEZOELECTRIC SENSING TECHNOLOGY IN WEARABLE TEXTILES ALIYA RAĐOĐIĆ , PRAVIN CHAVAN	A FUNCTIONAL PILLOW DESIGN AND PRODUCT INNOVATION WITH A PROTECTIVE EFFECT AGAINST ELECTROMAGNETIC POLLUTION HACER CELEBI, FARUK MISİRLIOĐLU , HATICE ALTUN, BSRA AYYILDIZ SOYLAK	PARADIGM SHIFT: SURFACE IMAGING AS A NEW CONCEPT FOR TEXTILE COLORATION HİTOSHİ UJİE
15:15-15:30	DEVELOPMENT OF A CAPACITIVE SLIDING-ELECTRODE TEXTILE SENSOR FOR JOINT MOTION MONITORING SEKENAY ZEYNEP EĐRİBOYUN , İBRAHİM ADEL AHMED KHANIS, MONİRE SİBEL ÇETİK, KADİR ZLEM, ASLI TUNÇAY ATALAY, ZGR ATALAY	AN ALTERNATIVE TEST METHOD FOR EVALUATING BACK POCKET TEAR STRENGTH IN WOVEN BOTTOM GARMENTS İSMAIL İVEDİ , BAHADİR GNEŞOĐLU	ENGINEERING OF COMPRESSION KNOT TEXTILES WITH NATURAL FIBER BLENDS ELVİRA SARYBAYEVA , MAKHANBETALIYEVA KAMSHAT
15:30-15:45	ELECTRICAL RESISTANCE OF EMBROIDERED CONDUCTIVE STRUCTURES FOR SMART TEXTILE ANTENNAS İNGA BREITMOZERE , GSTE LASTAUSKAİTĖ, JURGITA DOMSKIENĖ	OPTIMIZATION OF MULTI-LAYERED 3D SPACER FABRICS FOR IMPACT PROTECTION AND THERMAL COMFORT IN WINTER OUTERWEAR BANU BORDNOVALI BİLBAY, DEMET ATEŞ, AYÇA KANLIOĐLU GZKARA , EMİNE DILARA KOÇAK, ZGR ATALAY	
15:45-16:00	BREAK		

	HALL A	HALL B	HALL C
	SESSION 7 TRADITION & INNOVATION IN TEXTILE DESIGN <i>Chair: Lecturer Şkriye Yksel Filiz</i>	SESSION 8 INNOVATIVE FABRICS AND TECHNOLOGIES <i>Chair: Prof. Dr. Cevza Candan</i>	SESSION 9 INNOVATIVE FABRICS AND TECHNOLOGIES <i>Chair: Prof. Dr. Ender Bulgun</i>
16:00-16:15	QUANTITATIVE ASSESSMENT OF JACQUARD FABRIC STRUCTURES: COMPARING KNIT AND WOVEN COTTON DESIGNS MD İMRANUL İSLAM , GRACE YIP, SARAH NGUYEN, CHEUK TUNG ZOE WONG, WHITNEY CRUTCHFIELD	DESIGN OF AN INNOVATIVE AND SUSTAINABLE UNDERARM PAD WITH ENHANCED FUNCTIONALITY CEREN KARAARSLAN, İPEK BENG VAROL, EMİR BİLGİN, BANU NERGİS , CEVZA CANDAN, SEDA KIZIL	THE EFFECT OF GRAPHENE COATING ON THE THERMAL BEHAVIOR OF WOOL-BASED WOVEN FABRICS NAZLI TATAR, ELİF ALTRK
16:15-16:30	A FUNCTIONAL MODERN WOMEN'S GARMENT DESIGN REFLECTING NATURE-INSPIRED TRADITIONAL ANATOLIAN MOTIFS NİSA YAYAS , DILARA KOÇAK	ELECTROLESS COPPER PLATING OF PET-POPULAR HYBRID NONWOVENS FOR WEARABLE HEATING SYSTEMS ERDEM SERİN , PELİN ALTAY, SELİN HANİF ERYRK, ZGR ATALAY, ALPER GBARSLAN	DESIGNING STRENGTH AT THE SEAM: JOINING STRATEGIES FOR WOOL-CDRBA HYBRID TEXTILES NUR SEÇGİN , ZGE ÇLAK YILDIRIM, MELİKE ÇAVDAR, NURSEMA PALA AVCI, ZGR ATALAY, EMİNE DILARA KOÇAK
16:30-16:45	A COLLECTION DEVELOPED FROM UPCYCLED WASTE FISH SCALES, DESIGNED TO PROVIDE SUPPORT DURING THE MENOPAUSEL PERIOD. GİZEM EZER , FSN TAYAN ARAS	DESIGN OF HOME TYPE KNEE PADS FROM ALIXETIC KNITTED FABRICS WITH SUSTAINABLE FIBERS FOR ELDERLY PEOPLE AYDES KORUBAY, SDE AKYZ, EZGİ AYDIN, CEVZA CANDAN , SENA DURU, FATMA BANU NERGİS, EVREN ESKİ, HAKAN DOĐAN	EVALUATION OF HIGH-TENACITY POLYESTER YARNS ON THE ABRASION RESISTANCE OF AUTOMOTIVE SEAT FABRICS EMİR BALTACIOĐLU , BENAMİR FIDANCI, NUR CEYDA UYANKIRTI, SELENAY ELİF İŞLER, SEMİH OYLAR
16:45-17:00	ADAPTING IRANIAN HANDWOVEN TEXTILES TO MODERN WOMEN'S CLOTHING DESIGN IN THE CONTEXT OF SUSTAINABLE FASHION ELNAZ HADİDİ , AYBEN PAKOLPAKÇIL	COMPARATIVE MICROSTRUCTURAL ANALYSIS OF LYOCCELL FILAMENTS MERVE BULUT , MERVE KÇKALİ ZTRK	ENHANCED MOISTURE MANAGEMENT: DEVELOPMENT OF BIOFUNCTIONAL KNITTED FABRIC FOR SENSITIVE SKIN BİLGE KOYUNCU , CEVZA CANDAN, F. BANU NERGİS, M. MURAT PEKSEN

CONFERENCE DINNER
(GARDEN OF GUMUSSUYU CAMPUS)

29 APRIL 2026, WEDNESDAY

10:00-11:00 KEYNOTE SPEAKERS (HALL A)			
10:00-10:30	KEYNOTE 3 - PROF. DR. MIRELA BLAGA TEXTILE MATERIALS FOR HUMAN BODY PROTECTION AGAINST MECHANICAL VIBRATIONS		
10:30-11:00	KEYNOTE 4 - PROF. DR. SAVVAS VASSILIADIS NEGATIVE TEMPERATURE COEFFICIENT OF RESISTANCE IN TEXTILE-BASED TEMPERATURE SENSORS		
11:00-11:15 COFFEE BREAK			
HALL A	HALL B	HALL C	
SESSION 10 DIGITALIZATION AND MANAGEMENT Chair: Prof. Dr. Levent Onal	SESSION 11 SUSTAINABLE DYEING SOLUTIONS Chair: Prof. Dr. Fatma Kalaçoğlu	SESSION 12 SUSTAINABLE FASHION Chair: Prof. Dr. Habip Dayıoğlu	
11:15-11:30 2694 DIGITAL CRAFTSMANSHIP IN FASHION DESIGN: HYBRIDIZING TRADITIONAL TECHNIQUES AND EMERGING TECHNOLOGIES ARZU YURUSKAN, ENDER BULGUN, AHMET BELEN, MELİS ÖZEN	2324 SUSTAINABLE DYEING OF DIFFERENT SYNTHETIC FABRICS WITH ALGAE-BASED DYE STUFFS AYŞE CENEN SEN, HÖLTYA KIKIC	9573 AN INVESTIGATION OF FASHION DESIGN STUDENTS' PERCEPTIONS OF SUSTAINABILITY WITH RESPECT TO REBOUND EFFECT AWARENESS MERAL İŞLER, SELMA DOLANBAY DOĞAN	
11:30-11:45 9336 CONSUMER BEHAVIOR TOWARDS AUGMENTED REALITY APPLICATIONS IN PRODUCT TRIALS AND SHOPPING CANAN SARICAM, ENES TATLI, NAZAN OKUR, SINEM BIRSEN	4739 INVESTIGATION OF THE POTENTIAL FOR DYEING LUXURY FIBRES OBTAINED FROM CAMELIDS INTO COLOURS OTHER THAN THEIR NATURAL SHADES DURUL BUŞRA DEBRELLİ, MUHAMMET EMİN ŞENSOY, ÖZGE ÇOLAKOĞLU SEVER, ELİF AYDIN, RIZA ATAV	5425 DESIGNING A UNISEX FUNCTIONAL CAPSULE WARDROBE USING SUSTAINABLE DENIM PROCESSES HÜMEYRA ÇAKIR, ZEHRA DOĞAN SÖZÜER	
11:45-12:00 3612 FROM ALGORITHMS TO APPAREL: ANALYZING AI INTEGRATION IN FASHION DESIGN MELİS KÜÇÜKYLMAZ, SERNA UÇAR HATİPOĞLU	3972 INVESTIGATION OF THE USE OF LAHUR TREE ROOT, WHICH GIVES COLOUR TO MARDİN BLUE ALMOND CANDY, IN TEXTILE DYEING SIRAÇ BAKAY, ÖNER GÜNDÜZ, DURUL BUŞRA DİLDEN, RIZA ATAV	7540 RECYCLING OF PRE-VULCANIZED RUBBER WASTE FOR SUSTAINABLE HEEL COUNTER APPLICATIONS IN FOOTWEAR PRODUCTION BARİS BEKİROĞLU, SEZEN UZUNOĞLU, MUSTAFA YENER	
12:00-12:15 2355 BEYOND COMPLIANCE: UNLOCKING INVESTMENT-FREE FINANCIAL AND ENVIRONMENTAL SAVINGS THROUGH TRACEABILITY AND DIGITAL PRODUCT PASSPORTS IN THE TEXTILE VALUE CHAIN SEREL BASAK KÖK, SELİN HANİFE ERYÜRÜK, ZUMBUL ATAN		8007 IMPACT OF SUSTAINABILITY PROJECT ON FASHION STUDENTS' PRACTICES AND ATTITUDES HIU CHENG	
12:15-12:30 3227 A STUDY ON THE ADOPTION OF DIGITAL TECHNOLOGIES IN APPAREL RETAILING NAZAN OKUR, FİDAN CENAL, CANAN SARICAM		1547 STUDENT ATTITUDES TOWARDS SUSTAINABILITY IN TEXTILES DURING THE TEKUNITE PROJECT MIRELA BLAGA, MIHAELA PERDEVARA, IDIANA-OTILIA RUSU, DIANA-ANDREEA PLĂCINTĂ, ZLATIN ZLATEV, ANNE-MARIE GRUNDMEIER	
12:30-13:30 LUNCH			
13:30-14:30 POSTER SESSION			
HALL A	HALL B	HALL C	
SESSION 13 SUSTAINABLE DYEING AND PRINTING SOLUTIONS Chair: Prof. Dr. Rıza Atav	SESSION 14 FUNCTIONAL TEXTILES Chair: Prof. Dr. Ali Demir	SESSION 15 ENVIRONMENTAL SUSTAINABILITY Chair: Prof. Dr. Nazan Okur	
14:30-14:45 6388 INVESTIGATION OF VARIOUS PERFORMANCE AND DYEABILITY PROPERTIES OF COTTON BLEND YARNS PRODUCED USING NEXT-GENERATION REGENERATED FIBRES AND SILVER SEDA KESKİN ATAK, YAŞEMİN BASEVEN, SÖMEYRA DEMİRTAŞ ÖZKAYA, RIZA ATAV	6224 MULTI-CRITERIA ANALYSIS APPLICATION FOR EVALUATION OF THE SPECIALIZED TEXTILE PRODUCTS COMMERCIALIZATION POTENTIAL MARBİN STRUŠIŠCZYK, DOMINIKA KAMIŃSKA, AGNESZKA GUTOWSKA, MARZENA FEJDIŚ	9793 DEVELOPMENT AND ENVIRONMENTAL EVALUATION OF REUSABLE WOVEN FILTERS FOR MICROFIBER EMISSION REDUCTION GÖKÇE SAKMAB, HANDE SEZGİN, İPEK YALÇIN-ENİŞ	
14:30-14:45 9672 SUSTAINABLE CIRCULAR YARN DYEING: AN INNOVATIVE SINGLE-STAGE DYEING APPROACH TO REACTIVE DYEABLE COTTON/ACRYLIC BLEND YARNS NESLİHAN OKYAY, FATİH İŞİK, MÜCAHİD YAHYA ŞEKER	8975 THE RELATIONSHIP BETWEEN REGIONAL PRESSURE AND THERMOPHYSIOLOGICAL COMFORT IN TROUSERS SERAP PİRANOĞLU	9983 TECHNOLOGY TREND FORECASTING IN SUSTAINABLE TEXTILE INNOVATION THROUGH IPC-BASED PATENT ANALYSIS (2010-2025) BİLİŞBA BODYER	
14:45-15:00 4824 DEVELOPMENT OF A DISPERSE DYEING PROCESS FOR CELLULOSE ACETATE SOCKS AND INVESTIGATION OF DYEABLE COTTON/ACRYLIC BLEND YARNS FASTNESS PROPERTIES SEYMA NUR KÖSEÖĞLU, HAVVA KARA ŞENSOY, İSMET EGE KALKAN, UMUT KIVANÇ ŞAHİN	9322 DESIGN OF A LEGGING WITH THERAPEUTIC EFFECT SINEM BIRSEN, NAZAN OKUR, CANAN SARICAM, FATMA SUDE GÜLLÜOĞLU, ELİF İŞİK, SİLA ÇELİK	4520 FAST FASHION AND MICROPLASTIC POLLUTION: THE HIDDEN ENVIRONMENTAL COST SEMİN ÖZKÜR, HANDE SEZGİN, İPEK YALÇIN ENİŞ	
15:00-15:15 3855 SUSTAINABLE APPROACHES WITH ODORLESS AMMONIA AND BENTONITE SUBSTITUTION IN PIGMENT PRINTING RECIPES AYÇA TEMREN, ÖZLEM YARAR			
15:15-15:30 COFFEE BREAK			
HALL A	HALL B	HALL C	
SESSION 16 INNOVATIONS IN COTTON PROCESSING Chair: Prof. Dr. Banu U. Nergis	SESSION 17 TEXTILE WASTE MANAGEMENT Chair: Prof. Dr. Canan Sarıcam	SESSION 18 COMPOSITES Chair: Prof. Dr. İsmail Usta	
15:30-15:45 6599 SUSTAINABLE APPROACHES IN TEXTILE PROCESSING: A PRELIMINARY INVESTIGATION INTO THE FEASIBILITY AND LIMITATIONS OF HEDERA HELIX SAPONINS FOR THE PRETREATMENT OF COTTON FABRICS BERDAN KALAY	5248 EVALUATION OF THE UV-PROTECTION PERFORMANCE OF FABRICS FINISHED WITH POMEGRANATE PEEL POWDER SİNEM ÖZTÜRK	1916 SINGLE-STEP DEVELOPMENT OF MULTIFUNCTIONAL COTTON FABRICS USING BORON-BASED NANOCOMPOSITE FOR ENHANCED FLAME RETARDANCY AND ANTIBACTERIAL PERFORMANCE DİLARA SEVİNDİK, ESRA ÖRÜM, NECİP ATAR	
15:45-16:00 6482 INVESTIGATION OF RING SPINNING PERFORMANCE OF KAPOK/COTTON BLENDED WEAVING YARNS BEYZAGÜL PAYAM, ERKAN EVRAN	4732 GREEN REDUCTION OF GRAPHENE OXIDE USING TOMATO PEEL EXTRACT FOR FUNCTIONAL NONWOVEN TEXTILES NERGİS DEMİREL GÜLTEKİN, EFE KUZUYILMAZ, GÜL TOPAL, BEKİR CENK KUT GÜLTEKİN	9595 HYBRID COMPOSITE DESIGN FOR SUSTAINABLE AUTOMOTIVE INTERIORS: EFFECTS OF NATURAL FIBER FABRIC POSITIONING IN BIDIRECTIONAL GLASS FIBER REINFORCED COMPOSITE STRUCTURES ALHAYAT GETULI TEMESSEN, JÖRG KAUFMANN, HOLGER CEBULLA	
16:00-16:15 9941 CHARACTERIZATION OF RECYCLED COTTON FIBERS OBTAINED FROM KNITTED AND DENIM FABRICS BASED ON AFIS ANALYSIS KÜBRA BAYKAN ÖZDEN, ERKAN EVRAN, BEYZAGÜL PAYAM	8059 ULTRASOUND-ASSISTED CELLULOSE ISOLATION FROM LIGNOCELLULOSE AGRICULTURAL WASTES: A COMPARATIVE STUDY OF BLEACHING METHODS NURSEMA PALA AYCI, NEBAHAH ARAL YILMAZ, E. DİLARA KOÇAK	7172 DEVELOPMENT OF GREEN COMPOSITES REINFORCED WITH BAST FIBER FOR ACOUSTIC APPLICATIONS AKANDE ÇELEBİ, ABDULKADİR PARS, FATMA ZEHRA ENGIN SAĞIRLI, ALİ BEYİT	
16:15-16:30 3547 DEVELOPMENT OF BEDROOM TEXTILES FROM SUSTAINABLY SOURCED YARNS WITH DIFFERENT FUNCTIONAL PROPERTIES AND INVESTIGATION OF THEIR HAND (TACTILE) CHARACTERISTICS AYLİN KUŞEN, ONUR BALCI, NESLİHAN OKYAY, SEDA ÜNAL, ECE ŞEVAL ÖZCAN	9053 IDENTIFYING KEY INDICATORS AND ASSESSMENT DIMENSIONS FOR TEXTILE RECYCLABILITY IN THE CONTEXT OF EPR ECD-MODULATION, USING POLY-COTTON TEXTILES AS AN EXAMPLE TOWELA CHISI		
16:30 CLOSING CEREMONY			