

7th Edition of the International Conference on Intelligent Textiles & Mass Customisation – ITMC 2019 Smart Textiles Salon Vol.7 – STS 2019

13-15 November 2019
Palm Plaza Hotel, Marrakech, Morocco

Scientific Program

Day 0 - Tuesday 12/11/2019

Time	Activity
16:00 - 20:00	Get together party & Registration Palm Plaza Hotel, Marrakech

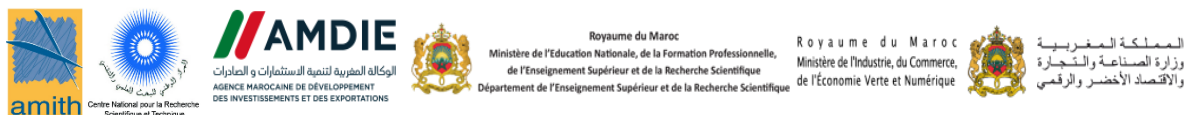
First day - Wednesday 13/11/2019

Time	Activity
8:30 9:30	Registration
9:30 10:00	Opening ceremony Mr. Mohammed Lahlou, ESITH , Morocco Mrs. Lieva Van Langenhove, University Ghent, Belgium Mr. Vladan Koncar, ENSAIT, France Mr. Jacek Mlynarek, Groupe CTT, Canada Mr. Shigeru Inui & Mr. Shohei Koyama, Shinshu University Japan
Plenary Session - Room A Session chair: Mr. Jacek Mlynarek, Groupe CTT, Canada	
10:00 10:30	Keynote 1 "E-textiles for medical and industrial applications" Prof. Vladan Koncar
10:30 11:00	Coffee break + Poster session
11:00 11:30	Keynote 2 "Complex 3D Woven Textiles : A Sustainable material" Prof. Bijoya Kumar Behera
11:30 12:00	Keynote 3 "Hot and Cold 3D Fabric Design" Mr. Perlinger Eric
12:00 12:30	Projects Session : Erasmus+ project FOSTEX: "Fostering innovation in the Jordan and Moroccan textile industry", project number 598347-EPP-1-2018-1-ES-EPPKA2-CBHE-JP Mrs. Mònica Ardanuy COST Actions: "CA16227 - Investigation and Mathematical Analysis of Avant-garde Disease Control via Mosquito Nano-Tech-Repellents" Dr. Peyman Ghaffari Present the BALI Chair Mr. Pascal Denizart
12:30 14:00	Lunch + Poster session

Partners ITMC



Official Partners



14:00
16:00

Parallel sessions 1

Session Chairs :	Intelligent textile 1	Nano technology	Sustainable production / Recycling	Confort
	Room A	Room B	Room C	Room D
	Mirela Blaga, "Gheorghe Asachi" Technical University of Iasi, Romania Aziz Lallam, ENSISA, France	Francois Boussu, ENSAIT, France Patricia Dolez, University of Alberta, Canada	Ariadna Detrell, AEI TÈXTILS, Spain Cochrane Cedric, ENSAIT, France	Georgios Priniotakis, Piraeus University of Applied Sciences, Greece Aileni Raluca Maria, Institute for Textiles and Leather, Romania
14:00 14:15	F44: Use Case of Smart Textiles Bio-Sensors Development and Integration for the Automotive Industry J. Decaens, O. Vermeersch, D. Lachapelle and P. Forcier CTT Group, Canada	F28: Synthesis of BaCO3 particles tailored by carboxylated cellulose fibers A. Jada, S. Ladhari, K. Jradi IS2M-UMR 7361 CNRS - UHA, France Université de Strasbourg, France. University of Quebec at Trois Rivieres, Canada	F6: Oriented membranes processes for facilitated extraction and recovery of some industrial dyes across polymer inclusion membranes containing Chitin as new extractive agent Y. Chaouqi, R. Ouchn, M. El Bouchti, O. Cherkaoui, M. Hlaibi Université Hassan II, Morocco REMTEX, ESITH, Morocco	F21: The effect of moisture on water vapour permeability of men's shirts made of natural fibres and their blends Lubos Hes, Satyadev Rosunee, Roshan Unmar, Pavel Gebrian Technical University of Liberec, Republic University of Mauritius, Mauritius
14:15 14:30	F87: Quantification of the silver content of a silver-plated nylon electrode according to the nature of the laundering detergent Valentin Gaubert, Hayriye Gidik, Nicolas Bodart, Vladan Koncar ENSAIT, France UCLille, HEI - France University of Lille, France Petit Bateau, France	F35: Polypyrrole coated hematite sand (HS@Ppy) as a new catalyst for degradation of organic dye based on sulfate radicals Abdellah Ait El Fakir, Zakaria Anfar, Amame Jada, Nouredine El Alem Université Ibn Zohr, Morocco IS2M-UMR 7361 CNRS - UHA, France Université de Strasbourg, Strasbourg, France	F23: Core-shell particles based on porous carbon@Fe3O4 for efficient removal of dyes from textile effluents Zakaria Anfar, Abdellah Ait El Fakir, Amame Jada, Nouredine El Alem Ibn Zohr University, Morocco IS2M-UMR 7361 CNRS - UHA, France Université de Strasbourg, France	F82: A method to reduce the number of sizes in apparel industry B. Hamad, S. Thomassey and P. Bruniaux ENSAIT, France Univ. Lille Nord de France, France
14:30 14:45	F8: Novel durable conductive inks & coatings open the door to mass production in smart textiles Brecht Demedts, Jurgen Mispelon, Daniela Zavec, Milan Baxa, Myriam Vanneste Centexbel, Belgium Titera, Slovenia Vetex, Belgium Applycon, Czech Republic	F51: A Highly Stretchable Strain Sensor based on Polyolefin Elastomer Nanofiber Membrane Mufang Li, Kangqi Chang and Dong Wang Wuhan Textile University, China	F32: A comparative study between tio2 and zno photocatalysis: photocatalytic degradation of textile dye Meriem Kouhail, Zakia Elahmadi, Abbes Benayada LEC, ESITH, Morocco Mohammed-V University, Morocco	F99: CALM scale - Assessment of the total comfort of the popular female jeans Braga. Iara, Abreu. Maria José and Oliveira. Madalena Federal University of Piauí, Brazil University of Minho, Portugal
14:45 15:00	F144: Effect of the textile substrate in the durability of embroidered textile antennas Heura Ventura, Laura Gonzalez-Lopez, Monica Ardanuy and Ignacio Gil ESEIAAT - Universitat Politècnica de Catalunya, Spain	F53: Surface Functionalized PVA-co-PE Nanofibre Membrane for Antibacterial and Bacterial Concentration Detection Zhentan Lu, Zhenguo Yu and Dong Wang Wuhan Textile University, China. Donghua University, China	F40: Sustainable wool insulation textile products - an opportunity for entrepreneurial initiatives in Romania Pyerina C. Ghituleasa, Eftalea Carpus, Angela Dorogan, Cezar Bulacu and Ana Enciu INCDTP, Romania SC MINET SA Company Ramnicu Valcea, Romania ICDCOC Palas Constanta, Romania	F103 : Comparison and testing of compression stockings for sport activities in the laboratory Abreu. Maria José, Catarino. André and Enczmann. Franziska University of Minho, Portugal University of Reutlingen, Germany
15:00 15:15	F45: Design and Development of a piezo-resistive sensor based on	F143: The controlled release of silica and phosphates nanoparticles	F110: Effect of Through the Thickness Stitching on The Performances of Non	F126: Identify the most influential operating parameters affecting

	<p>PEDOT: PSS applied to Sisal's natural fiber for monitoring of 3D warp Interlock fabric A. Abed, C. Cochrane, F. Boussu, O. Cherkaoui, R. Elmoznine ENSAIT, France REMTEX, ESITH, Morocco Chouaib Doukkali University, Morocco</p>	<p>coated onto textile by the sol-gel process Mohamed El Messoudi, Aicha Boukhriss, Omar Cherkaoui, M'hammed El Kouali, Said Gmouh REMTEX, ESITH, Morocco Hassan II University, Morocco</p>	<p>Woven Textile Wastes at Dry and Composite Scales Wafa Baccouch, Adel Ghith, Xavier Legrand, Faten Fayala University of Monastir, Tunisia Lille University, France</p>	<p>stiffness of knitted fabric using fuzzy decision trees Rania Baghdadi, Hamza Alibi, Faten Fayala, Xianyi Zeng University of Monastir, Tunisia University North Lille of France, France</p>
15:15 15:30	<p>F129: A new method of measuring the surface roughness of conductive woven fabrics for the integration of organic photovoltaic cells Hajar Jaouani, Denoun Saifaoui, Mohamed Dalal, Omar Cherkaoui, Dimitra Matsouka, Savvas Vassiliadis University Hassan II, Morocco REMTEX, ESITH, Morocco University of West Attica, Greece</p>	<p>F150: Microencapsulation for Better Mosquitoes Repellent Efficacy of Cotton Fabrics A M Grancaric, K Laird, L Botteri, J Shen and K Laatikainen University of Zagreb, Croatia De Montfort University, UK Lappeenranta-Lahti University of Technology LUT, Finland</p>	<p>F118: Novel water conservation technique and Eco-Dyeing of Wool Fibers using Henna Extract in non-aqueous Medium Omer Kamal Alebeid Jiping Wang Zhejiang Sci-Tech University, China, University of Engineering Science, China Cleaner Production Institute, Sudan</p>	<p>F127: Hydrothermal - dewrinkling of textile surfaces L. Ben Hassine, A. Lallam and D. Ivanov University of Upper Alsace Mulhouse, France</p>
15:30 15:45	<p>F97: A colorimetric and fluorescent sensor based-azo dye to develop test strip for Cu²⁺ / CN- detection in aqueous media S. Fettouche, A. Boukhriss, M. Tahiri, O. Cherkaoui and S.Gmouh REMTEX, ESITH, Morocco, Université Hassan II, Morocco.</p>	<p>F50: Rheological Properties and Dissolution of cellulose in 3-hexyl-1-methylimidazolium based ionic liquids Kaoutar Aghmih, Mehdi El Bouchti, Aicha Boukhiss, Mounir El Achaby, Sanaa Majid, Said Gmouh REMTEX, ESITH, Morocco Hassan II University, Morocco Mohamed VI Polytechnic University, Morocco</p>	<p>F148: Application of natural inorganic adsorbent for removal of cr(vi) ions from textile industry wastewater Kiril Lisichkov, Hamdije Memedi, Katerina Atkovska, Erhan Mustafa, Stefan Kuvendziev, Flakrim Aliu, Mirko Marinkovski "Ss. Cyriland Methodius" University, Skopje State University of Tetovo, Macedonia</p>	<p>F128: Using reverse neural networks (ANNi) to predict the structural variables from a fixed value of the crease recovery angle Hamza Alibi, Rania Baghdadi, Faten Fayala, Abdelmajid Jemni, Xianyi Zeng University of Monastir, Tunisia University North Lille of France, France</p>
15:45 16:00	<p>F36: Development of a smart piezoelectric textiles by surface modification with coating process based on interfacial interaction on the conformational variation of Poly (vinylidene fluoride) (PVDF) chains. N. Chakhchaoui, R. Farhan, F. Benkhouya, A. Eddiai, M. Meddad, O. Cherkaoui, Y. Boughaleb, Lieva Van Langenhove Hassan II University, Morocco REMTEX, ESITH, Morocco Mohamed el Bachir el Ibrahimi BBA University, Algeria Ghent University, Belgium</p>	<p>F54: Application of Fe₃O₄@polyAcrylate on Cotton fabric by polymer coating Sara Jamoudi Sbai, Aicha Boukhriss, Mehdi Elbouchti, Omar Cherkaoui, and Said Gmouh REMTEX, ESITH, Morocco Hassan II University, Morocco</p>	<p>F41: Mitigation of environmental impact caused by Flame Retardant textile finishing chemicals Félix-de-Castro, Paula, Boisserée, Nora, De-Vilder, Ine, Detrell, Ariadna, Casamada, Josep LEITAT Technological Center, Spain CENTEXBEL, Belgium. AEI Tèxtils, Spain.</p>	<p>F151: Comfort-related properties of the seersucker woven fabrics M. Matusiak Lodz University of Technology, Poland</p>
16:00 16:30	Coffee break			
17:00 18:30	City tour			

Second day – Thursday 14/11/2019

Time	Activity			
8:30 9:00	Registration			
Plenary Session - Room A				
Session chair: Mr. Vladan Koncar, ENSAIT, France				
9:00 9:30	Keynote 4 "Digital transformation and open innovation for Railway sector" Mr. Emmanuel Cox			
9:30 10:00	Keynote 5 "Lithium ion batteries in a fast-changing world" Mr. Rachid Yazami			
10:00 10:30	Keynote 6 "MASEN Renewable Energy program in Morocco" Mr. Hicham Bouzekri			
10:30 11:00	Coffee break + Poster session			
11:00 13:00	Parallel sessions 2			
Session Chairs :	Smart & Functional textiles	Supply Chain Management, Logistics and Digital Tools 1	Advanced Manufacturing	Education & Learning
	Room A	Room B	Room C	Room D
	Dominique Adolphe, ENSISA, France Lieva Van Langenhove, Ghent University, Belgium	Mustapha Hlyal, ESITH, Morocco Elhachemi Nizar, EMI, Morocco	Ana Marija Grancaric, University of Zagreb, Croatia Vladan Koncar, ENSAIT, France	Amane Jada, IS2M, France Savvas G. Vassiliadis, Piraeus University of Applied Sciences, Greece
11:00 11:15	F16: Development of Super-Hydrophobic and Stain Repellent Fabric Finish Dr. Subhas Ghosh, Roopkatha Pallye Eastern Michigan University, USA	F4: Use of multicriteria decision analysis methods for the selection of the subcontractors in an apparel supply chain Mourad Lahdhiri, Mohamed Jmali And Amel Babay University of Monastir, Tunisia	F7: Verification of fiber diameter and pretreatment method for high signal-to-noise ratio THz spectrum measurement S. Koyama, R. Tamura and Toru Kurabayashi Shinshu University, Japan Akita University, Japan	F38: Applications of Smart Textiles in Occupational Health and Safety Patricia I. Dolez, Justine Decaens, Thibaut Buns, Dominic Lachapelle and Olivier Vermeersch University of Alberta, Canada CTT Group, Canada
11:15 11:30	F115: Improvement of enzymatic antifelting treatment of Wool Fiber and its effect on the dyeing with juglon of common walnut plant Younes Chemchame, Hajar Benzbir, Amina Kachachi, El Bouchti Mehdi, and Aboubakr Kharchafi Foundation of Hassan II Mosque, Morocco. REMTEX, ESITH, Morocco	F9: Study on Classification of Habitat for Cashmere Fiber by Infrared Spectroscopy First Y. Ikeda, Second S. Koyama, Third H. Ishizawa Shinshu University, Japan.	F22: Influent product and process parameters on the mechanical behaviour of 3D warp interlock fabrics made with E-glass yarns A. Kececi, F. Boussu, D. Soulat ENSAIT, France	F86 : Collection of requirements for teaching in the area of Smart Textiles Prof. Manuela Bräuning Albstadt - Sigmaringen University, Germany
11:30 11:45	F80: Smart nanofibrous membrane as chemiluminescence biosensor for hydrogen peroxide determination Wenwen Wang Wuhan Textile University, China	F10: Ant colony optimization for the assembly line balancing based on workers' performance Z. Chourabi, F. Khedher and A. Babay University of Monastir, Tunisia	F57: Ultrasound Welding Device for Reinforcement of the Invasive Textile Mesh Destined to the Reconstruction of the Thoracic Wall A.G. Ene, C.Mihai and C.Jipa The Research-Development National Institute for Textile and Leather, Romania	F130: Application of Make/Use Platform for Sustainable Fashion Design Anda Ščerbaka Riga Technical university, Latvia
11:45 12:00	F105: Non-formaldehyde Wrinkle	F17: Hybridization of Game Theory and ridesharing to Optimize	F58: Innovative Solutions for Increasing the Performance of the	F139: A project to improve awareness for

	<p>Recovery Finish for Cotton and Linen Preeti Arya, Subhas Ghosh Fashion Institute of Technology, USA Eastern Michigan University, USA</p>	<p>reverse Logistics of healthcare Textiles Mustapha Ahlaqqach, Jamal Benhra, Salma Mouatassim And Safia Lamrani HASSANII University, Morocco CELOG-ESITH, Morocco</p>	<p>Cutting Equipment for Textile Subassembly having Variable Geometry C. Mihai, A.G. Ene and C.Jipa Institute for Textile and Leather, Romania</p>	<p>cyber security in smart textile applications Prof. Manuela Bräuning, Tobias Scheible Albstadt-Sigmaringen University, Germany</p>
12:00 12:15	<p>F112: Knitted Cotton Fabric Strain Sensor by In-situ Polymerization of Pyrrole G.B.Tseghai, B.Malengier, D.A.Mengistie, K.A.Fante and L.Van Langenhove Ghent University, Belgium Bahir Dar University, Ethiopia Jimma University, Ethiopia</p>	<p>F67: Theoretical model of green supply chain management S.Elhidaoui, K.Benhida Université Cadi Ayyad, Morocco</p>	<p>F77: The investigation of crimp and spinline effects on the processing behavior of polyaramide fibers during spinning process I. Boughamoura, A. Sinoimeri and O. Harzllah Université de Haute-Alsace, France Université de Strasbourg, France</p>	<p>F30: CONTEXT, a European Network to connect research and innovation efforts on advanced Smart Textiles Dr. Ariadna Detrell AEI TÈXTILS, Spain</p>
12:15 12:30	<p>F158: Research regarding electromagnetic shielding achieved by the fabrics support L Surdu, R M Aileni, R I Radulescu, L Chiriac Institute for Textiles and Leather, Romania</p>	<p>F69: Integration of Lean management for the growth of Green industry Kaoutar Jbira, Mustapha Hlyal, Jamila El Alami University Med V, Morocco ESITH, Morocco</p>	<p>F167: Mathematical and numerical modeling of soiling effects of photovoltaic solar panels on their electrical performance Marwane Rouway, Zoubair Boulahia and Mourad Nachtane Hassan II University, Morocco ENSTA Bretagne, France REMTEX, ESITH, Morocco</p>	<p>F145: Review of literature on existing models about the impact of Continuous Training on business performance Asmaâ Moussaid, Mohamed Tkiouat And Mustapha Hlyal ESITH, CELOG, Morocco EMI, Morocco</p>
12:30 12:45	<p>F81:The development of a printed, stretchable multi-sensory array for the simultaneous and accurate sensing of differential temperature and strain Manoj Jose and Wim Deferme Universiteit Hasselt, Belgium IMEC vzw - Division IMO-IMOME, Belgium</p>	<p>F14: Synthesis and application of azo dye on cotton fabric via sol-gel T Aaboub, A Boukhriss, O Cherkaoui, and S Gmouh REMTEX, ESITH, Morocco. Hassan II University, Morocco.</p>		<p>F165: Erasmus+ Projects for e-Learning in Engineering Education M. Blaga, Z Stjepanovič, I R Radulescu, B Malengier, A Dias, P Dufkova Gheorghe Asachi, Technical University, Romania University of Maribor, Slovenia INCDTP, Romania University of Ghent, Belgium University of Minho, Portugal Textile Testing Institute, Czech Republic</p>
12:45 13:00	<p>F42: Introduction of biochar for the manufacture of flax conductive fabrics L. Marrot, N. Vellguth, J. Winkelmann, M. Wolf, and D.B. DeVallance Renewable Composites Materials, InnoRenew CoE, Slovenia Wilhelm-Klauditz Institut WKI, Germany</p>			<p>F62: Adapted sportswear for comfort improvement of elite rowers S. Vasile, J. Cools and A. De Raeve University College Ghent, Belgium</p>
13:00 14:00	Lunch + Poster session			

14:00
16:00 **Parallel sessions 3**

Session Chairs :	Intelligent textile 2	Technical textile	Mass Customization	Supply Chain Management, Logistics and Digital tools2
	Room A	Room B	Room C	Room D
	Vincent Nierstrasz, University of Borås, Sweden Bijoya Kumar BEHERA, Indian Institute of Technology, India	Sheilla Atieno Odhiambo, Gent University, Belgium Toshihiro Hirai Shinshu University, Japan	Vladan Koncar, ENSAIT, France Omar Cherkaoui, ESITH, Morocco	El Hassan Laaziz, ESITH, Morocco Nizar ELHACHEMI, EMI, Morocco
14:00 14:15	F26: Fiber sensors as the cutting edge material for smart textile –Miniaturization of interrogator and elucidation of blood pressure measurement principle- S. Koyama and H. Ishizawa Shinshu University, Japan	F141: Development of 3D warp interlock fabrics based on Moroccan Natural Fibers Z. Samouh, O. Cherkaoui , D. Soulat, F. Boussu and R. El Moznine Chouaib Doukkali University, Morocco REMTEX, ESITH, Morocco Univ. Lille, France	F1: Dart creation method in a virtual draping system Shigeru Inui and Yosuke Horiba Shinshu university, Japan	F78: Optimization of occupational risks based on multi-criteria decision support methods: case of the textile industry A. Waguaf, R. Benabbou And J. Benhra ENSEM, MOROCCO
14:15 14:30	F39: 100% PVDF 3D textiles structures to improve energy harvesting A. Talbourdet, C. Cochrane, F. Rault, G. Lemort, C. Campagne, and E. Devaux ENSAIT, France	F74: Sand concrete based on synthetic fiber (polypropylene) for the building sector H.Suiffi, A.El Maliki, O.Cherkaoui, M.Dalal ENSEM, Morocco REMTEX, ESITH, Morocco	F33: Value added creation with advanced mass-customized textile labels M. Barteld, R. Gebhardt, F. Siegel, U. Portsch STFI - Saxon Textile Research Institute, Germany Qualitytype GmbH, Germany	F98: Sustainable Transport in the supply chain using Dijkstra algorithm Mourad Lahdhiri, Mohamed Jmali And Amel Babay University of Monastir, Tunisia
14:30 14:45	F63: Development of E-textile electrodes: washability and mechanical stresses Shahood Uz Zaman , Xuyuan Tao, Cédric Cochrane And Vladan Koncar University of Lille, France ENSAIT, France	F3: Multifunctional polyester textile coated organophilic graphene nanosheets : synthesis , characterization & application G.Achagri, Y.essamlali, A.Chakir, M.Zahouily University Hassan II, Casablanca, Morocco MAScIR Foundation, Morocco	F94: The predictive development of the electroconductive textile using artificial neural network R. M. Aileni and L. Chiriac Institute for Textiles and Leather, Romania	F108: A Neural Network based DEA approach for terminal container port: Moroccan Case Study Mouhsene Fri, Kaoutar Douaioui, Samir Tetouani, Charif Mabrouki and Semma El Alami Hassan 1st University, Morocco CELOG-ESITH, Morocco Mohammed V University, Morocco
14:45 15:00	F79: Analysis of the power transfer and electrical performances of an embroidered textile loop antenna for near field communication (NFC) applications Baptiste Garnier, Cédric Cochrane, François Rault, Vladan Koncar, François Dassonville, Philippe Mariage, Savvas Vassiliadis, Nikos Stathopoulos, Stelios Mitilineos ENSAIT, France Univ. Lille, France University of West Attica, Greece	F168: A facile route for the preparation of hydrophobic and antibacterial pet fabrics using ag-loaded graphene nanocomposite Boubker Ouadil, Othmane Amadine, Younes Essamlali, Omar Cherkaoui, Mohamed Zahouily REMTEX, ESITH, Morocco. Université Hassan II, Morocco. MAScIR Foundation, VARENA Center, Morocco	F93: Contribution to the supply chain optimization by predicting demand using neural networks Abdeslam Mozher, Rajaa Benabbou, Jamal Benhra ENSEM, Morocco	F119: Empirical assessment of critical success factor of lean and six sigma in the Moroccan context Raja Elboq, Mustapha Hlyal, Jamila El Alami Mohammed V University, Morocco CELOG, ESITH, Morocco
15:00 15:15	F113: Preparation and Applications of Fiber Based Moisture Sensitive	F48: Mechanical and thermal property evaluation of nonwovens made palm fiber	F49: Valorisation of waste feathers: treatments and characterization	F121: Physical Internet: success factors by analogy

	<p>Actuator for energy harvesting and smart controller Wen Wang, Chenxue Xiang and Dong Wang Donghua University, China Wuhan Textile University, China</p>	<p>reinforced polyester composites O. Azmami, L. Sajid, S. Gmouh LEC, ESITH, Morocco. Hassan II University of Casablanca, Morocco. Mohammad V University, Morocco</p>	<p>Ouahiba Mrajji, Mohamed El Wazna, Abdeslam El Bouari, Omar Cherkaoui University Hassan II Casablanca, Morocco. REMTEX, ESITH, Morocco</p>	<p>K. Jharni, M. Hlyal and Third J. El Alami Mohammed V University, Morocco CELOG, ESITH; Morocco LASTIMI, High School of Technnology, Morocco</p>
15:15 15:30	<p>F122: New Textile-Based Hybrid Photovoltaic / Thermal (PV/T) System Barbara Pause Textile Testing & Innovation, LLC, USA</p>	<p>F120: Chemical Composition and Mechanical Properties of phosphate Glass Fibers based on naturel phosphate and kaolin clay O. Jamal Eddine, M. El Bouchti, A. Boukhriss, H. Wakrim, O. Cherkaoui, H. Hannache, And S. Gmouh University Hassan II, Morocco REMTEX, ESITH, Morocco University Mohamed VI Polytechnic, Morocco</p>	<p>F125: Mass personalization, a key driver for the textile industry 4.0 Pascal Denizart CEO CETI, France</p>	<p>F147: Sustainable Supply Chain Management: Review of Triggers, Challenges and Conceptual Framework D. Saidi, J. El Alami And M. Hlyal University Med V, Morocco CELOG, ESITH, Morocco</p>
15:30 15:45	<p>F131: Investigating the Effect of Air Permeability and Moisture on 2.45GHz Textile Microstrip Antenna Performance A. Wahab Memon, Patrick Van Torre, B. Malengier and L. Van Langenhove Ghent University, Belgium Mehran University of Engineering & Technology, Pakistan</p>	<p>F34: Development of nonwoven textile materials based on raw palm fiber L. Sajid, O. Azmami, Z. Elahmadi, A. Benayada, S. Gmouh LEC, ESITH, Morocco Mohammad V University, Morocco Hassan II University of Casablanca Morocco</p>	<p>F75: Study of Evaporation Coefficient during Capillary Rise Sofien Benltoufa, Malika Dimassi, Amal Boughatts Faten Fayala University of Monastir, Tunisia</p>	<p>F155: Exponential Success through Integrated Supply Chain Optimization, Ecomotional Intelligence and Reputation-based Leadership: Zara Model N. Berbiche, J. El Alami and M. Hlyal Med V University, Morocco CELOG, ESITH, Morocco</p>
15:45 16:00	<p>F117: Soft Graphene-Based Antennas for Ultrawideband Wireless Communication Elif Ozden-Yenigun, Isidoro I. Labiano, Muhammed S. Ergoktas, Anne Toomey, Coskun Kocabas, and Akram Alomainy School of Design, Textiles, Royal College of Art, United Kingdom Queen Mary University of London, UK Materials Engineering University of Manchester, United Kingdom</p>	<p>F70: Effect of water immersion, laundering, and abrasion on the conductivity of a reduced graphene oxide coating on a meta-aramid fabric Chungyeon Cho, Anastasia L. Elias, Jane Batcheller, Hyun-Joong Chung and Patricia I. Dolez University of Alberta, Canada University of Alberta, Canada</p>		<p>F146: The esterification and dyeing properties of raw wool fibers Fatine Akoh, El Bouchti Mehdi, Omar Cherkaoui, and Mohamed Tahiri Hassan II University, Morocco Remtex, ESITH, Morocco</p>
16:00 16:30	Coffee break			

16:30 18:00			
Parallel sessions 4			
Session Chairs :	Intelligent textile 3 Room A Ana Marija Grancaric, University of Zagreb, Croatia Shohei Koyama, Shinshu University Japan	Technical textile / Nano technology Room B Fernando Batista Nunes Ferreira, University of Minho, Portugal Omar CHERKAOUI, ESITH, Morocco	Supply Chain Management, Logistics and Digital tools2 / Sustainable production / Recycling Room C Amel Babay, University of Monastir, Tunisia Shigeru Inui, Shinshu University, Japan
16:30 16:45	F11: Functional Shoe for the Detection of Walking Pattern Anomalies G.B. Tseghai, B. Malengier, D.A. Mengistie and L. Van Langenhove Ghent University, Belgium Bahir Dar University, Ethiopia Linköping University, Sweden	F19: Functionalization of textile fabric by the sol gel method using ionic liquids: potential application for oil- water separation. Aziz Bentis, Aicha Boukhriss, Omar Cherkaoui, Mohamed Zahouily, Bouchaib Manoun, and Said Gmouh Université Hassan II, Morocco. REMTEX, ESITH, Morocco. Université Hassan 1er, Morocco	F20: HAP functionalization of textile fabrics by coating process A.Bouasria, A.Boukhriss, S.Saouabi, S.Gmouh, O.Cherkaoui, H.Hannache Hassan II University, Morocco REMTEX, ESITH, Morocco Mohammed V University, Morocco
16:45 17:00	F157: Dynamic Colour in Textiles: Combination of Thermo, Photo and Hydrochromic Pigments I. Cabral, A. P. Souto University of Minho, Portugal	F25: Cobalt Nanoparticles/Cellulose Nanofibers Aerogel Composites: Highly Active and Green Catalyst for Reduction of 4-Nitrophenol in Water Nouaamane EL Idrissi, Aicha EL Mouden, Hamid Kaddami, Larbi Belachemi Cadi Ayyad University Marrakech, Morocco.	F169: AI based forecasting in fast fashion industry: a review El Hassan Laaziz ESITH
17:00 17:15	F5: Smart Vest to Monitor Continuously Musculoskeletal Disorders Samir Tetouani; Nora Abia; Omar Cherkaoui REMTEX, ESITH, Morocco	F133: Influence of gradient of diameter on mass transfer in case of electrospun nano-patches Tatiana Blazevic, Joséphine Delerue, Ali Akbar Gharehaghaji, Dominique C. Adolphe, Emilie Drean, Laurence Schacher University of Haute-Alsace, France Amirkabir University of Technology, Iran	F37: Preparation and characterization of a new low-cost polyacrylonitrile adsorbent Hayat Bouchoum, Mehdi El Bouchti, Amane Jada, Mohamed Tahiri and Omar Cherkaoui REMTEX, ESITH, Morocco. Hassan II University, Morocco Univ Haute Alsace, France Univ Strasbourg, France
17:15 17:30	F88: Enhanced Piezoelectric Properties of PVdF-HFP/PZT Composites Due to High β-Phase formation in Poly (vinylidene fluoride-co-hexafluoropropylene) K. Oumghar, N. Chakhchaoui, R. Farhan, A. Eddiai, M. Meddad, O. Cherkaoui, Y. Boughaleb, Lieva Van Langenhove REMTEX, ESITH, Morocco Hassan II University, Morocco Mohamed el Bachir el Ibrahimi BBA University, Algeria Ghent University, Belgium	F100 : Thermal performance and optimum textile insulation thickness of building walls for energy saving Mohamed EL Wazna, Ayoub Gounni, Mrajji Ouahiba, Abdeslam EL Bouari, Mustapha EL Alami and Omar Cherkaoui Hassan II University, Morocco REMTEX, ESITH, Morocco	F31: Valorization of Moroccan Natural Phosphate on the Production of Phosphate Glass Fibers N.Saloumi, M.El Bouchti, O.Cherkaoui, H.Hannache REMTEX, ESITH, Morocco Hassan II University, Morocco Mohamed VI Polytechnic University, Morocco
17:30 17:45			F18: Identification of natural indigo precursors by HPLC to confirm natural dyeing Yosra Raji, Omar Cherkaoui, Souad Zyade REMTEX – ESITH, Morocco Hassan II Casablanca University, Morocco
20:00 23:00	Gala dinner		

Third day – Friday 15/11/2019 - Smart Textiles Salon 2019

Time	Activity		
8:30 9:00	Registration		
Plenary Session - Room A			
Session chair: Mrs. Lieva Van LANGENHOVE			
9:00 9:30	Keynote 7 "Toward the smart fiber & textile" Pr. Toshihiro Hirai		
9:30 10:00	Keynote 8 "Developments in the Belgian Textile Industry" Mr. Kris Van Peteghem		
10:00 10:30	Keynote 9 "Smart textiles: technological review and future perspectives" Prof. Dr. Savvas G. Vassiliadis		
10:30 11:00	Coffee break + Poster session		
11:00 12:30	Prototype oral presentations session		
11:00 11:05	"Textile-based Strain Sensor to Determine Edema Status" Granch Berhe Tseghai	11:45 11:50	"Smart Vest to Monitor Continuously Musculoskeletal Disorders" Samir Tetouani
11:05 11:10	"DAid® Pressure Socks System" Peteris Eizentals	11:50 11:55	"Heated soft shell jacket with smart embroidery" Justine Decaens
11:10 11:15	"Graphene based soft antennas" Elif Ozden-Yenigun	11:55 12:00	"Modularity Ichthys" Galina Mihaleva
11:15 11:20	"NFC Textile wireless energy and data transfer device" Baptiste Garnier	12:00 12:05	"Design of a conductive fabric network using simple coating method" Boubker Oualil
11:20 11:25	"Smart luminous products designed to reduce risks on the way to educational institutions" Manuela Bräuning	12:05 12:10	"New smart piezoelectric textiles for ambient mechanical energy harvesting application" Nabil Chakhchaoui
11:25 11:30	"Alarmgrid" Marco Barteld	12:10 12:15	"Smart Geolocation Textile" Hajar Jaouani
11:30 11:35	"Vest for women's" Mourid Fatima	12:15 12:20	"Piezoresistive sensor based on natural fiber (Sisal) for monitoring a reinforcement fibrous (UD or 3D fabrics) for composite applications" Ahmed Abed
11:35 11:40	"Heating mould with conductive nonwoven for composite applications" Yohan Gendreau	12:20 12:25	"Smart Solar Textiles SSOLTEX Of Nanotechnology for Generate Power of Students Hostile at Kafrelsheikh University" Elsayed Ahmed Elnashar
11:40 11:45	"Electrokinetic drainage geocomposite for mine tailings dewatering" Patricia I. Dolez	12:25 12:30	"Invisible fluorescent ink for textile printing via the sol-gel process" Aicha Boukhriss
12:30 13:30	Lunch		
13:30 15:00	Prototypes interactive exhibition session		
15:00 15:30	Closing ceremony ITMC2019 ITMC Conference and Smart Textile Salon Awards - Best Oral presentation award - Best Poster presentation award - Best Prototype award		
16:00 18:30	Visit to the Majorelle Garden		

Lis of Posters ITMC'2019

List of Posters ITMC'2019

1	<p>F66: Influence of Textile Laminates Structure and Properties on Work Shoes Comfortability A. Gulbinienė, V. Jankauskaitė, K. Ancutiene Kaunas University of Technology, Lithuania</p>
2	<p>F89: Interactive Textile Vestimentary Systems for Wellbeing Eftalea Cărpuş, Angela Dorogan, Ioana Doretty Cărpuş National R&D Institute for Textile and Leather, (Romania) University, Medicine Faculty (Romania)</p>
3	<p>F90: The color fastness properties of conductive leather improved by the use of mordants M. Hylli, A. Shabani, I. Kazani, S.Drushku, G. Guxho PolytechnicUniversity of Tirana, Albania.</p>
4	<p>F136: Needleless Electrospinning of PAN/SBA-15 for the preparation of Nanofibers Membranes M. Hassan Rafe, Christelle Delaite, Benedicte Lebeau, Magali Bonne, Elham Mohsenzadeh, Dominique Adolphe Université de Haute Alsace, France Université de Haute Alsace (UHA), France UCL, France</p>
5	<p>F24: Properties of Moroccan Natural Fiber Reinforced PLA Composites Z.Samouh, K.Molnar ,O.Cherkaoui and R.El Moznine Chouaib Doukkali University, Morocco REMTEX, ESITH, Morocco Budapest University of Technology and Economics, Hungary MTA-BME Research Group for Composite Science and Technology, Hungary</p>
6	<p>F149: Wastewater Treatment using Flocculation Method and Water Re-use for Dyeing of Polyester Fibres Forte Tavčer Petra University of Ljubljana, Slovenia</p>
7	<p>F161: Physical-mechanical properties of thermal protective fabric subjected to textile care I Schwarz, S Brnada, A Kiš, S Kovačević University of Zagreb, Faculty of Textile Technology, Department of textile design and management, Prilaz baruna Filipovica 28a, 10000 Zagreb, Croatia Čateks d.d., Quality Control Department, Zrinsko-Frankopanska 25, 40000 Čakovec, Croatia</p>
8	<p>F104: The new era in Retail: Retail 4.0 centered on the human being and its purchase process Abreu. Maria José, Fernandes, Andreia Raquel University of Minho, Portugal</p>
9	<p>F109: The effect of material fusing upon 3D Simulation of garments E. Strazdiene, K. Lekeckas and V. Bytautaite Vilnius University of Applied Science, Lithuania Kaunas University of Technology, Lithuania</p>
10	<p>F65: Development of a new polymeric electrolyte for lithium ion battery Kaoutar Aghmih, Sanaa Majid, Said Gmouh, Aicha Boukhriss , Omar Cherkaoui REMTEX, ESITH, Morocco Hassan II University, Morocco</p>
11	<p>F68: Preparation and characterization of aerogel/cellulose nanocrystal composite as building thermal insulation material Mohamed El Wazna, Soumia Boukind, Said Sair, Omar Cherkaoui, Abdeslam El Bouari University Hassan II of Casablanca, Morocco. REMTEX, ESITH, Morocco</p>
12	<p>F154: Extraction of essential oils with mothproof properties for the treatment of wool Aicha Hamrani, Omar Cherkaoui REMTEX, ESITH, Morocco.</p>
13	<p>F156: Textile material for the design of wearable microstrip patch antenna El Batal Khadija, Eddiai Adil, Meddad Mounir, Cherkaoui Omar And Mazroui M'hammed Hassan II University, Morocco. University of Bordj Bou Arreridj, Algeria. REMTEX, ESITH, Morocco</p>
14	<p>F166: Thermo physical characterization of sustainable insulation materials made from poultry waste Ouahiba Mrajji, Mohamed El Wazna, Omar Cherkaoui, Abdeslam El Bouari University Hassan II, Morocco REMTEX, ESITH, Casablanca Morocco</p>
15	<p>F83: Try before you buy: How augmented reality is inspiring online shoppers A. Ayouzi , R.Aouaal ESITH, Morocco Hassan 1st university, Morocco</p>
16	<p>F43: Comfort Evaluation of Close-Fitting Clothing using Virtual Try-on Technology K. Ancutienė Kaunas University of Technology, Lithuania</p>
17	<p>F96: Cellulose Aerogels: Synthesis, Characterization and Applications Ayoub Imgirne, Said Sair, Mohamed El Wazna, Omar Cherkaoui, Abdeslam El Bouari</p>

	University Hassan II of Casablanca, Morocco. REMTEX, ESITH, Morocco
18	F25: Cobalt Nanoparticles/Cellulose Nanofibers Aerogel Composites: Highly Active and Green Catalyst for Reduction of 4-Nitrophenol in Water Nouaamane EL Idrissi, Aicha EL Mouden, Hamid Kaddami, Larbi Belachemi Cadi Ayyad University Marrakech, Morocco
19	F130: Application of Make/Use Platform for Sustainable Fashion Design Anda Ščerbaka Riga Technical university, Latvia
20	F159: Thermal resistance of double jersey fabric knitted by different yarn raw material D Kopitar, Z Pavlovic, Z Skenderi and Z Vrljicak University of Zagreb, Croatia
21	F14: Synthesis and application of azo dye on cotton fabric via sol-gel T Aaboub, A Boukhriss, O Cherkaoui, and S Gmouh REMTEX, ESITH, Morocco Hassan II University, Morocco
22	F19: Functionalization of textile fabric by the sol gel method using ionic liquids: potential application for oil-water separation. Aziz Bentis, Aicha Boukhriss, Omar Cherkaoui, Mohamed Zahouily, Bouchaib Manoun, and Said Gmouh Université Hassan II, Morocco REMTEX, ESITH, Morocco Université Hassan 1er, Morocco.
23	F78: Optimization of occupational risks based on multi-criteria decision support methods: case of the textile industry A. Waguaf, R. Benabbou And J. Benhra ENSEM, MOROCCO
24	F79: Analysis of the power transfer and electrical performances of an embroidered textile loop antenna for near field communication (NFC) applications Baptiste Garnier, Cédric Cochrane, François Rault, Vladan Koncar, François Dassonville, Philippe Mariage, Savvas Vassiliadis, Nikos Stathopoulos, Stelios Mitilineos ENSAIT, France Univ. Lille, France University of West Attica, Greece
25	F86: Collection of requirements for teaching in the area of Smart Textiles Prof. Manuela Bräuning Albstadt - Sigmaringen University, Germany
26	F131: Investigating the Effect of Air Permeability and Moisture on 2.45GHz Textile Microstrip Antenna Performance A. Wahab Memon, Patrick Van Torre, B. Malengier and L. Van Langenhove Ghent University, Belgium Mehran University of Engineering & Technology, Pakistan
27	F143: The controlled release of silica and phosphates nanoparticles coated onto textile by the sol-gel process Mohamed El Messoudi, Aicha Boukhriss, Omar Cherkaoui, M'hammed El Kouali, Said Gmouh REMTEX, ESITH, Morocco Hassan II University, Morocco
28	F144: Effect of the textile substrate in the durability of embroidered textile antennas Heura Ventura, Laura Gonzalez-Lopez, Monica Ardanuy and Ignacio Gil ESEIAAT - Universitat Politècnica de Catalunya, Spain
29	F6: Oriented membranes processes for facilitated extraction and recovery of some industrial dyes across polymer inclusion membranes containing Chitin as new extractive agent Y. Chaouqi, R. Ouchn, M. El Bouchti, O. Cherkaoui, M. Hlaibi Université Hassan II, Morocco REMTEX, ESITH, Morocco
30	F129: A new method of measuring the surface roughness of conductive woven fabrics for the integration of organic photovoltaic cells Hajar Jaouani, Denoun Saifaoui, Mohamed Dalal, Omar Cherkaoui, Dimitra Matsouka, Savvas Vassiliadis University Hassan II, Morocco REMTEX, ESITH, Morocco University of West Attica, Greece
31	F18: Identification of natural indigo precursors by HPLC to confirm natural dyeing Yosra Raji, Omar Cherkaoui, Souad Zyade REMTEX – ESITH, Morocco Hassan II Casablanca University, Morocco
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33	F37: Preparation and characterization of a new low-cost polyacrylonitrile adsorbent Hayat Bouchoum, Mehdi El Bouchti, Amane Jada, Mohamed Tahiri and Omar Cherkaoui

	<p>REMTEX, ESITH, Morocco. Hassan II University, Morocco Univ Haute Alsace, France Univ Strasbourg, France</p>
34	<p>F167: Mathematical and numerical modeling of soiling effects of photovoltaic solar panels on their electrical performance Marwane Rouway, Zoubair Boulahia and Mourad Nachtane Hassan II University, Morocco ENSTA Bretagne, France REMTEX, ESITH, Morocco</p>
35	<p>F145: Review of literature on existing models about the impact of Continuous Training on business performance Asmaâ Moussaid, Mohamed Tkiouat And Mustapha Hlyal ESITH, CELOG, Morocco EMI, Morocco</p>
36	<p>F31: Valorization of Moroccan Natural Phosphate on the Production of Phosphate Glass Fibers N.Saloumi, M.El Bouchti, O.Cherkaoui, H.Hannache REMTEX, ESITH, Morocco Hassan II University, Morocco Mohamed VI Polytechnic University, Morocco</p>
37	<p>F147: Sustainable Supply Chain Management: Review of Triggers, Challenges and Conceptual Framework D. Saidi, J. El Alami And M. Hlyal University Med V, Morocco CELOG, ESITH, Morocco</p>
38	<p>F54: Application of Fe₃O₄@polyAcrylate on Cotton fabric by polymer coating Sara Jamoudi Sbai, Aicha Boukhriss, Mehdi Elbouchti, Omar Cherkaoui, and Said Gmouh REMTEX, ESITH, Morocco Hassan II University, Morocco</p>
39	<p>F141: Development of 3D warp interlock fabrics based on Moroccan Natural Fibers Z. Samouh, O. Cherkaoui, D. Soulat, F. Boussu And R. El Moznine Chouaib Doukkali University, Morocco REMTEX, ESITH, Morocco Univ. Lille North of France, France</p>
40	<p>F69: Integration of Lean management for the growth of Green industry Kaoutar Jbira, Mustapha Hlyal, Jamila El Alami University Med V, Morocco ESITH, Morocco</p>
41	<p>F20: HAP functionalization of textile fabrics by coating process A.Bouasria, A.Boukhriss, S.Saouabi, S.Gmouh, O.Cherkaoui, H.Hannache Hassan II University, Morocco REMTEX, ESITH, Morocco Mohammed V University, Morocco</p>
42	<p>F97: A colorimetric and fluorescent sensor based-azo dye to develop test strip for Cu²⁺ / CN⁻ detection in aqueous media S. Fettouche, A. Boukhriss, M. Tahiri, O. Cherkaoui and S.Gmouh REMTEX, ESITH, Morocco, Université Hassan II, Morocco.</p>
43	<p>F168: A facile route for the preparation of hydrophobic and antibacterial pet fabrics using ag-loaded graphene nanocomposite Boubker Ouadil, Othmane Amadine, Younes Essamlali, Omar Cherkaoui, Mohamed Zahouily REMTEX, ESITH, Morocco. Université Hassan II, Morocco. MASciR Foundation, VARENA Center, Morocco</p>
44	<p>F48: Mechanical and thermal property evaluation of nonwovens made palm fiber reinforced polyester composites O. Azmami, L. Sajid, S. Gmouh LEC, ESITH, Morocco Hassan II University of Casablanca, Morocco Mohammad V University, Morocco</p>