



**LGTex**  
Laboratoire de Génie Textile

**ATCTex**



NAMIK KEMAL  
UNIVERSITY  
2006

# CIRAT-6

THE SIXTH INTERNATIONAL  
CONFERENCE OF  
APPLIED RESEARCH  
ON TEXTILE

NOVEMBER  
**13-15**  
**2014**  
HAMMAMET - TUNISIA

## PROGRAM OF THE CONFERENCE

### Wednesday, November 12, 2014

17H00-19H00

Welcome and Registration

Since 19H00

Dinner

### Thursday, November 13, 2014

08H00-12H00

Welcome and Registration

09H00-09H30

Opening ceremony

10H00-10H30

**Plenary conference 1 (Amphitheatre César) : ADVANCES IN UV-TECHNOLOGY FOR USE IN TEXTILE DYEING AND FINISHING**  
Dr. Reinhold Schneider, ITCF DEKENDORF, Germany

10H30-11H00

Coffee break

11H00-11H30

**Plenary conference 2 (Amphitheatre César): MECHANICAL PROPERTIES OF BANANA/GLASS WOVEN TEXTILE COMPOSITES**  
Prof. Sabu Thomas, School of chemistry sciences, Mahatma Gandhi University, India

11H30-12H00

**Plenary conference 3 (Amphitheatre César): SPECIAL YARNS FOR ARTIFICIAL MUSCLES**  
Prof. Fatma Göktepe, Department Of textile engineering, Namik Kemal University, Turkey

12H20-14H00

Lunch



## 2 | PROGRAM OF THE CONFERENCE

14H00-18H05			
Oral sessions			
14H00-16H00	<b>Session 1: Textile fibers and advanced materials</b> (César 1 auditorium) <b>Chairman: Prof. Sakli and Prof. Goktepe</b>	<b>Session 2: Textile manufacturing</b> (César 2 auditorium) <b>Chairman: Prof. Hann and Prof. Özek</b>	<b>Session 3: Environment protection, ecology, water &amp; energy management</b> (César 3 auditorium) <b>Chairman: Prof. Chemani and Dr. Dhoub</b>
14H00-14H20	<b>TFM6:</b> Graft copolymerization onto date palm cellulose fibers Deruiche I, Ben Marzoug I, Sakli F and Roudesli S	<b>TMS10:</b> Prediction of the handmade carpet weight. Abidi F, Hrizi T, Msahli S and Sakli F.	<b>EPM3:</b> Micro-structural and mechanical characterization of an ecology building materials using alfa waste. Harbaoui M., Bouasker M., Mounanga P., Benkahla N., Ben Hassen M. And Khelidj A.
14H25-14H45	<b>TFM10:</b> Effects of treatments with curling iron on Human Hair Fibers Sayahi C, Harizi T, Msahli S and Sakli F.	<b>TMS12:</b> Study of the dehairing process of dromedary fibers Rahmouni A, Harizi T and Msahli S.	<b>EPM6:</b> Study of a new insulator formed of textile waste. Haddad A., Benltoufa S., Fayala F. and Jemni A.
14H50-15H10	<b>TFM11:</b> Morphological and Physical Characterization of NaOH Treated Typha Stem Fibers Rezig S. Ben Mlik.Y, Jaouadi M. and Msahli S.	<b>TMS14:</b> Numerical simulation of yarn bending: statistical optimization Maâtouk I, Msahli S, Zidi M and Sakli F.	<b>EPM9:</b> Eco-friendly bleaching technology for indigo dyed fabric Ben Hmida S. and Ladhari N.
15H15-15H35	<b>TFM13:</b> Preparation and characterization of Fibreborad from rachis date palm and lignin resin. Ammar M, Khiari R, Elaloui E and Belgacem M N	<b>TMS15:</b> The effect of luffa and agave blending on wetlaid nonwoven properties Ridane S, Ben Marzoug I, Ghali L and Msahli S.	<b>EPM11:</b> Enhancement of dye removal via polymer blending technique Jabli M, Hamdaoui M and Ben Hassine B.
15H40- 16H00	<b>TFM21:</b> Slub yarn structural parameters impact on composite yarn quality model SOUID H., Sahnoun M., Babay A.and Cheikhrouhou M.	<b>TMS16:</b> The weave designs final color prediction Benltoufa S and Miled W.	<b>EPM17:</b> Application of Modified Clays as a Biosorbent to Removal Basic Red 46 and Reactive Yellow 181 from Aqueous Solutions Bouatay F., Dridi Dhaouadi S., Mhenni F. M.
16H00-16H30			
Coffee break			
	<b>Session 1: Textile fibers and advanced materials</b> (César 1 auditorium) <b>Chairman: Dr. Sahnoun and Dr. Dalal</b>	<b>Session 2: Textile manufacturing</b> (César 2 auditorium) <b>Chairman: Prof. Babaarslan and Prof. Thomas</b>	<b>Session 3: Technical, functional &amp; smart textiles</b> (César 3 auditorium) <b>Chairman: Dr. Schneider and Prof. Ben Hassen</b>



### 3 | PROGRAM OF THE CONFERENCE

16H30-16H50	<p><b>TFM14:</b> Effect of combined chemical treatment on physical and mechanical properties of posidonia fiber Zannen S, Ghali L, Halimi M T and Ben Hassen M.</p>	<p><b>TMS5:</b> Modeling the bagging behavior of denim fabrics as function of mechanical properties Gazzah M., Jaouachi B., Schacher L., Adolphe D., Sakli F.</p>	<p><b>TFS7:</b> Optimization of polyester elastane braided ligaments performances Turki S., Marzougui S. and Ben Abdessalem S.</p>
16H55-17H15	<p><b>TFM15 :</b> Fleece quality of tunisian sheep breeds Harizi T, Abidi F, Hamdaoui R, and Ben Ameur Y.</p>	<p><b>TMS17:</b> Yarn tensile properties modeling using fuzzy inference system Ghanmi H, Ghith A and Benameur T.</p>	<p><b>TFS8:</b> Characterisation and voltage response of polypropylene piezoelectric filaments. Vatansever Bayramol D., Soin N., Hadimani R. L., Shah L. and Siores E.</p>
17H20-17H40	<p><b>TFM18:</b> Effect of conception parameters of non-woven alfa fibres on their adhesion in unsaturated polyester matrix Triki A, Omri M A, Guicha M., Ben Hassen M., Arous M and Fakhfakh Z. Mohamed Naceur , Mhenni Mohamed Farouk</p>	<p><b>TMS21 :</b> Multiple criteria decision aid in the comfort-stretch of knitted fabric by using desirability function Alibi H., Fayala F., Baghdad R., Jemni A., Zeng X.</p>	<p><b>TFS12:</b> Synthesis of a smart cotton fabric by modification with hydrogel Trad M., Miled M., Ben Ltoufa S., Ben Slama R., Fayala F. and Bakhrouf A.</p>
17H45-18H05	<p><b>TFM22:</b> Structural Modification Of The Agave Fiber Seeking Its Valuation Turki A, El Oudiani A, Msahli S and Sakli F.</p>	<p><b>TMS23:</b> Construction of fuzzy control charts based on direct fuzzy approach: the case of textile industry Sagbas A, Capraz O, Ozek H. Z.</p>	<p><b>TFS11:</b> Surface modified polypropylene nonwoven used for dye removal. Haji A., Shoushtari A. M. and Abdouss M.</p>
Since 19h00	Dinner		

## Friday, November 14, 2014

08h00-12h00	Welcome and Registration		
8H30-9H00	<p><b>Plenary conference 4 (Amphitheatre César):</b> VALORIZATION OF TUNISIAN LOCAL NATURAL FIBERS IN TEXTILE AND PARATEXILE APPLICATIONS Prof. Slah Msahli, LGTex, Monastir University, Tunisia</p>		
9H00-9H30	<p><b>Plenary conference 5 (Amphitheatre César):</b> SOUSTAINABILITY IN TEXTILES AND FASHION Prof. Michael Hann, School of design, University of Leeds, UK</p>		
9H30-10H00	<p><b>Plenary Lecture 6 (Amphitheatre César):</b> SMART MATERIALS FOR ENERGY - FROM LABORATORY TO COMMERCIALISATION Prof. Elias Siores, University of Bolton, UK</p>		
10H00-10H30	Coffee break		



## 4 | PROGRAM OF THE CONFERENCE

10H30-12H05				Oral sessions		
		<b>Session 1: Clothing technologies and engineering</b> (César 1 auditorium) Chairman: Prof. Sakli and Dr. Sahnoun	<b>Session 2: Environment protection, ecology, water &amp; energy management</b> (César 2 auditorium) Chairman: Prof. Özek and Prof. Ben Hassen	<b>Session 3: Nanotechnology in textile</b> (César 3 auditorium) Chairman: Prof. Goktepe and Prof. Thomas		
10H30-10H50		<b>CLT4:</b> Objective evaluation of woven quality fabric by calculating a sewability index Malek S., Khedher F., Jaouachi B., Ben Said S and Cheikrouhou M.	<b>EPM12:</b> Developing product specifications for date palm protection Guedri W, Jaouadi M and Msahli S	<b>NAT3 :</b> Manufacturing of nanofiber-coated textiles with a large-scale electrospinning pilot plant Varesano A., Vineis C., Tonetti C. and Mazzuchetti G.		
10H55-11H15		<b>CLT6:</b> Objective evaluation of labor capability by calculating a competence index Chourabi Z., Babay A. And Khedher F.	<b>EPM10:</b> Quality Features of Denim Fabrics Produced from Sustainable Fibers Telli A, Babaarslan O and Erbil Y.	<b>TFM19:</b> Electrospinning and Crosslinking of chitosan based nanofibres for potential drug delivery application Ouerghemmi S, Degoutin S., Tabary N., Janus L., Cazaux F., Blanchemain N. and Martel B.		
11H20-11H40		<b>CLT5:</b> The effectiveness of sterilisation process and barrier properties of re-usable surgical gowns used in Zimbabwe's operation theatres Nyoni A., Katedza P., Krishnasamy N., Murugan JV and Jaikumar	<b>EPM22:</b> Evaluation of sustainable textile production by fmea technique Dalkiliç H and Ozek H.Z.	<b>NAT6 :</b> Comparing studies on microwave absorption properties of poly (vinyl alcohol)/ multiwalled carbon nanotube composites in thin film and nanofiber layer structure Salimbeygi G., Haji A. and Mousavi Shoushtari A.		
11H45-12H05		<b>TFS10:</b> Portable charging garment Anam Memon	<b>EPM4:</b> A sustainable approach to collect post-consumer textile waste in developing countries. Buyukaslan E.	<b>NAT5:</b> Morphology and porosity of PA6 forspun nanofiber membranes Yuan W. and Krifa M.		
12H05-14H30				Lunch		
14H30-16H05				Oral sessions		
		<b>Session 1: Clothing technologies and engineering</b> (César 1 auditorium) Chairman: Dr. Schneider and Prof. Hann	<b>Session 2: Environment protection, ecology, water &amp; energy management</b> (César 2 auditorium) Chairman: Dr. Dhouib and Dr. Ladhari	<b>Session 3: Nanotechnology in textile</b> (César 3 auditorium) Chairman: Prof. Babaarslan and Prof. Ben Abdessalem		



## 5 | PROGRAM OF THE CONFERENCE

14H30-14H50	<p><b>CLT9:</b> New approach for predicting seam strength Jedda H., Boussaid J. and M'sahli S.</p>	<p><b>EPM18:</b> Neutralization of Textile Wastewater Using Carbon Dioxide Bouatay F., Boussaid N. and Mhenni M. F.</p>	<p><b>NAT12:</b> Comparative study of clay and titanium dioxide effect on mechanical properties of their nanocomposites Glouia Y., Dhouib S. and Abid K.</p>
14H55-15H15	<p><b>CLT12:</b> Energy Deformation in Wrinkled Woven Fabrics El Abed B., Msahli S., Bel Hadj Salah H. and Sakli F.</p>	<p><b>EPM7:</b> The Removal Of Dyes From Textile Wastewater: A Study Of The Physical Characteristics And Adsorption Mechanisms Of Date Pits Haddad A. and Mhenni M. F.</p>	<p><b>NAT10:</b> Design of polyamide nanofiber air filter media with glass particles. Atakan R., Pampal E., Polat Y., Demir A. and Kilic A.</p>
15H20-15H40	<p><b>CLT8:</b> Bi-dimensional simulation tool of elementary motions on a sewing workstation El Jaffel N., Maatoug N. and Sakli F.</p>	<p><b>EPM13:</b> Study of the effect of the nature of the prepared complex on the catalytic activity of dyes : Evaluation of the efficiency via Activation Energy (Ea) Jabli M. and Ben Hssine B.</p>	<p><b>NAT7:</b> Morphology and microbiological properties of nanosilver cellulose acetate nanofibers produced by electrospinning. Gaemizadeh M. and Bahrami S. H.</p>
15H45- 16H05	<p><b>NAT13:</b> Polyurethane nanocomposite foams with dynamic heat storage capacity Sarier N., Onder E and Ukuser G.</p>	<p><b>EPM1:</b> Developing a noval ozonation catalyst for textile wastewater treatment Songmin Shang, Xinbo Wu, Enling Hu, Xiao-ming Tao, NicyLuo</p>	<p><b>NAT15:</b> Electrospinning of acrylamide chitosan-g-PAMAM dendrimer: The effect of electrospinning parameters Moshggo C., and Hajir Bahrami S.</p>
16H05-16H30	<b>Coffee break</b>		
<b>Posters sessions</b>			
16H30 – 18H00	<p><b>TMS2:</b> Influence of pressure from compression textile bands: their using in the treatment of venous human leg ulcers Chemani B. and Halfaoui R.</p>	<p><b>TMS8:</b> Tension of yarn, due to the effect of the balloon Halfaoui R. and Chemani B</p>	<p><b>TMS19:</b> Physical and mechanical properties of nonwoven based on blended (kenaf/ cotton) and (kenaf /acrylique) fibers Jaouadi M., Ben Mlik Y., Msahli S. and Sakli F.</p>
	<p><b>TMS22:</b> Study on Prediction Method of Quality Uncertainty in the Textile Processing Based on Data SHAO Jingfeng, WANG Jinfu, BAI Xiaobo and MA Xiaohong</p>	<p><b>TDF8:</b> The improvement of the dyeing properties of modified polyamide 6.6 microfibers dyed with cationic dye Makhlouf C., Ladhari N., Braham D., Roudesli S. and Sakly F.</p>	<p><b>TDF12:</b> Modeling of extraction of natural dye from GRAPE POMACE using a central composite design method BAAKA N., HADDAR W., BEN TICHA M., HAMMAMI S. and MHENNI M. F.</p>
	<p><b>TDF13:</b> Synthesis of azodisperse dyes containing pyridine ring for dyeing acetate and/ or other fibers: part III Fadda A. and Abbas N. S.</p>	<p><b>TDF15:</b> Effect of ultrasonic energy on dyeing polyamide material with reactive dyestuff having diverse chromophore and reactive group Merdan N., Akin F. And Izzet A.</p>	<p><b>TDF16:</b> Examination of color properties of viscose nonwoven surfaces dyed with natural dyestuff extracted from dwarf elderberry (SAMBUCUS EBULUS L.) plant Akin F., Merdan N., Canbolat S. and Kiliç M.</p>



## 6 | PROGRAM OF THE CONFERENCE

16H30 – 18H00

<p><b>TDF19:</b> Tunisian populations of RHUS TRIPARTITA (UCRIA) GRANDE: a promising source of natural dyes for textile application Gargoubi S., Ladhari N., Boudoukhane N. and Sakli F.</p>	<p><b>NAT4:</b> Organic/inorganic nanofibers from water solutions with antibacterial and photo-catalytic activities Vineis C., Varesano A., Tonetti C., Mazzuchetti G., Sánchez Ramírez D. O., Orтели S., Blosi M. and Costa A. L.</p>	<p><b>NAT14:</b> Electrical conductivity measurement of electrospun pva-based carbon nanofibers EROL M., Agha O., Pampal E., Hassanin A., Kilic A.</p>
<p><b>EPM2:</b> Synthesis and characterization of Al –Ag co- doped ZnOnano-photocatalyst and performance evaluation via Reactive Blue 19 (RB19) dye degradation under UV irradiation Khodadadia M., Olya M. I. and Zarenezhad B.</p>	<p><b>EPM14:</b> Evaluation of dyes sorption of reinforced modified zeolites ZSM-5 date palm fibers for reactive dyes decolourisation Ben Marzoug I, Derrouiche I., Sakli F. and Roudesli S.</p>	<p><b>EPM16:</b> Chemical recycling of poly (ethylene terephthalate). El Mejatti A., Harita T., ISAAD J., Khiari R. and Malek F.</p>
<p><b>EPM21:</b> Application of Ce-Ag-ZnO Nano-Photocatalyst For Textile Wastewater Treatment Jalili M., Jahangiri M. and Olya M.E.</p>	<p><b>EPM23:</b> Dye adsorption by modified JUNCUS ACUTUS L fibers in fixed-bed system El Ghali A., Baouab M.HV. and Roudesli S.</p>	<p><b>TFS17:</b> Orthopaedic Neoprene Behaviour under Cyclic Spatial Biaxial Deformation Saceviciene V., Antanaviciute A. and Juciene M.</p>
<p><b>CLT7:</b> Classification of fabrics defects using image analysis and fuzzy c-means method. Jmali M., Zitouni B., Sakli F.</p>	<p><b>CLT11:</b> Determination of correlation between fabric parameters and drape profile using fuzzy c-means Hamdi T., Ghith A., Fayala F.</p>	<p><b>FDT3:</b> Design attributes and heuristics for fashionable technology. Hadj Taeb A., Taktak O., Ayadi M., Cheikhrouhou M.</p>
<p><b>FDT4:</b> Valorization of cutting step wastes creation of patchwork fabrics and design of patchwork cloths Debbabi F., Sahnoun M. and Khordoghli B.</p>	<p><b>TFM 16 :</b> Valorization of tunisian agricultural waste from almond shell, almond and fig rod as a source of cellulose fibres Moussa I., Khiari R., Moussa A., Mhenni F. and Belgacem M.N.</p>	<p><b>TFM23:</b> Experimental study of the influence of twist on the mechanical properties of high-performance yarns Medeiros J. I., Paulino I., Silva J., Steffens F. and Oliveira F.R.</p>
<p><b>TDF25:</b> optimization of the natural dyeing process with the leaves of Fennel using the response surface methodology Haddar W., Elksibi I., Meksi N., b and Mhenni M.F.</p>	<p><b>TDF26:</b> a statistical analysis of The effect of dyeing on the contact angle of knitted fabric Kabbari M., Fayala F., Ghith A. ,Liouene N.</p>	<p><b>CLT13:</b> A Generalized Rheological Model Of Fabric Wrinkling Recovery Zaouali R., Msahli S, Sakli F.</p>
<p><b>CLT14:</b> New Approach for Characterization of Simultaneous Puncture/Cutting Resistance of Protective Gloves Triki E., Phuong Nguyen Tri, Chantal Gauvin, Toan Vu-Khanh</p>	<p><b>TFS18:</b> The Influence of Three-Layer Knitted Fabrics' Structure on Comfort Properties Saceviciene V, Strazdiene E., Urbelis V., Krauledas S, Vilumsone A., Baltina I</p>	<p><b>EPM24:</b> Technical and environmental impacts of dyeing cotton with indigo reduced by 3-Hydroxybutanone Ben Ticha M., Meksi N., Drira N.,Mhenni M.F</p>
<p><b>TFM16:</b> Valorization of Tunisia agricultural waste from almond shell, almond and fig rod as source of cellulose fibers Moussa I., Khiari R., Moussa A., Mhenni F., Bengaem N.</p>	<p><b>TFM12 :</b> Comparative Study And Characterization Of Tunisian Cellulosic Fibres from Prunus Amygdalus And Tamaris Mechri N. Khiari R., Belgacem N., Elaloui E.</p>	

20H-23H

Party dinner



Saturday, November 15, 2014

8H30-10H30			
Oral sessions			
	Session 1: Textile in composite materials (César 1 auditorium) Chairman: Prof. Thomas and Dr. Dalal	Session 2: Textile dyeing and finishing (César 2 auditorium) Chairman: Dr. Ladhari and Dr. Dhouib	Session 3 : Textile fibers and advanced materials (César 3 auditorium) Chairman: and Prof. Goktepe and Dr. Sahnoun
8H30-8H50	<b>TCM5:</b> Study of the mechanical performance of composite materials based on rubber particles and alpha fibers Brahem M., Jaouachi B. ; Marzoug I. and Sakli F.	<b>TDF5:</b> The effect of washing and dyeing on the durability of a hydrophobic treatment applied on pes/cotton plush knitted fabric by measuring the contact Kabbari M., Fayala F., Ghith A. and Liouene N	<b>TFM7 :</b> Deposition Of Modified Zeolite Zsm-5 Onto Date Palm Fibers Derrouiche I., Ben Marzoug I., Sakli F. and Roudesli S.
8H55-9H15	<b>TCM8:</b> Effects of manufacturing technology on the mechanical properties of alfa fiber nonwoven reinforced PMMA composites Wannassi B., Ben Hassan M. and Msahli S.	<b>TDF9:</b> Improvement of hydrophilic properties of top sheet layer of hygienic product. Tilouche R., Sayeb S., Ben Hassen M.	<b>TFM17:</b> Enzymatic and biologic retting of Tunisian kenaf fiber Ben Mlik Y., Jaouadi M. and Msahli S.
9H20-9H40	<b>TCM9:</b> Study of new composites based on cellulose fibers Maafi E., Isaad J., Bouabdellah I. And Malek F.	<b>TDF11:</b> Influence of Industrial Ironing Conditions on Compressive Properties of Cotton Fabric Cheriaa R., Ben Marzouk I. and Sakli F.	<b>TFS14:</b> Impact of hot-stretching treatment on mechanical properties of braided polyethylene terephthalate (PET) suture Debbabi F., Ben Abdessalem S. and Dhouib S
9H45-10H05	<b>EPM19:</b> Thermal properties of an ecology lightweight concrete using alfa waste as a vegetable aggregates Harbaoui M., Bouasker M., Mounanga P., Benkahla N. and Ben Hassen M.	<b>TDF17:</b> Mosquito repellency of polyester nets treated with cyclodextrin/repellent complexes Miro Specos M. M., Topollan D. Y., Arata J., Zannoni V., Volmajer Valh J., Garcia J., Gutierrez A.C., Voncina B., Hermida L.G.	<b>TFS13:</b> Study of the behaviour of shape memory materials in tubular knitting structures. Medeiros J. I., Fangueiro R.b; Cruz J.b; Nascimento J. H. O. and Oliveira F. R.
10H10-10H30	<b>TMS9:</b> Effect of fiber hook on yarn quality Al-Nawaseh W. Kechiche M. and Sinoimeri A.	<b>TDF10:</b> The effect of substrate properties on drop impact behaviour. Romdhani Z., Baffoun A., Hamdaoui M. and Roudesli S.	<b>TFM20:</b> Phosphorescent blend nanofibers: characterization of photophysical properties ÇALIŞIR M. D., Erol M., Simsek R., Yalcin H. and Kilic A.
10H30-11H00			
Coffee break			



# 8 | PROGRAM OF THE CONFERENCE

11H00 - 13H00

## Oral sessions

	<p><b>Session 1: Textile manufacturing (César 1 auditorium)</b> Chairman: Prof. Chemani and Prof. Ben Abdessalem</p>	<p><b>Session 2: Textile dyeing and finishing (César 2 auditorium)</b> Chairman: Dr. Schneider and Dr. Ladhari</p>	<p><b>Session 3 : Fashion and design in textile (César 3 auditorium)</b> Chairman: Prof. Hann and Prof. Sakli</p>
<p>11H00-11H20</p>	<p><b>TMS3:</b> Modelling The Tightness Behavior Of 2D AND 3D Woven Fabrics Dalal M., Drean J. Y., Osselin J.F.</p>	<p><b>TDF18:</b> Optimization Of Textile Dyes Decolorization By Laccase Produced In Submerged Culture El Bsir M., Ladhari N., Sakli F.</p>	<p><b>FDT2:</b> Physical and sensory attributes characterizing a goniochromic textile. Ammar C., Boulenguez J., Dupont D., Zeng X</p>
<p>11H25-11H45</p>	<p><b>TMS7:</b> Influence of the processing variables on the mechanical properties of the elastic core spun yarn Helali H., Babay Dhouib A., Msahli S. and Cheikhrouhou M.</p>	<p><b>TDF21:</b> Improving of cotton fabric with durable water-oil repellency and flame retardancy properties by organic-inorganic hybrid coating. Moralia S., Onar N., Kutlub B., Aksit A., Yakin I. and Celik E.</p>	<p><b>TPM7:</b> Assessment of features of private shopping websites for apparel retailing Saricam C. and Erdumlu N.</p>
<p>11H50-12H10</p>	<p><b>TMS20:</b> Multi-response optimization of stretch knitted fabric thermal comfort by using the diagrams of superimposed contours Baghdadi R, Fayala F, Alibi H and Zeng X.</p>	<p><b>TDF22:</b> Investigation of liquid characteristics effect on wetting and wicking behaviors of knitted fabrics Achour N. S., Hamdaoui M., Ben Nasrallah S. and Perwuelz A.</p>	<p><b>TPM6:</b> An exploration of fast fashion consumers' profile Erdumlu N., Saricam C., Sensoy D., Hatipoglu I., Tugluk E. T. and DELEN Z. B.</p>
<p>12H15 - 12H35</p>	<p><b>TMS27:</b> Predicting the bagging Recovery of denim Fabrics as Function of Frictional properties Using Fuzzy Logic Theory Gazzah M., Jaouachi B., Sakli F.</p>	<p><b>TDF23 :</b> Study of the influence of ozonation treatments on the denim garment shade and mechanical properties Dhouib S., Elkhazen I. and Sakli F.</p>	<p><b>TPM5:</b> Study of the demand of the moroccan technical textiles market through the study of import. Zaim F. and Sbiti M.</p>
<p>12H40-13H00</p>	<p><b>TMS18:</b> Development and characterization of nonwoven fabric for apparel applications Cheema M, , Tahir H shah, Subhash C Anand</p>		
<p>13H00-13H30</p>	<p><b>Closing ceremony</b></p>		
<p>13h30-14h30</p>	<p><b>Lunch</b></p>		

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