

DAY 1 | 07 JUNE 2022

OPENING SESSION

9:00-9:15 The official opening of the Autex 2022 Conference and welcome speech by Professor Katarzyna Grabowska, Conference Chair, Poland

9:15-9:45 Keynote Speaker: Professor Mirella Blaga, Technical University of Iasi, Romania; President of Autex

9:45-10:15 Keynote Speaker: Professor Vincent Nierstrasz, University of Borås, Sweden

10:15-10:45 Keynote Speaker: Professor Lieva Van Langenhove, Ghent University, Belgium

10:45-11:00 CONFERENCE ANNOUNCEMENTS

11:00-11:30 BREAK

ROOM	1	2	3	4	5
PANEL	Advanced, smart, protective and innovative fibres, materials and functional textiles	Textile testing, measuring technology, modelling and simulation	Nanotechnology and biotechnology in textiles (including implants and medical textiles)	Surface functionalization, chemical finishing, coating, surfaces and textile processing	Fashion, design, clothing, garment industry, ecology of textiles and textile economy
11:30-11:45	Impact response of sandwich composites with p-aramid (Kevlar®) waste fibre reinforcement. Gaye Kaya, Turkey	Mechanically robust and flexible shape memory polyurethane with hexamethylene diisocyanate as mixing segment. Jayashree Mohanty, India	Hydrothermal Deposition of Ag-doped g-C ₃ N ₄ -TiO ₂ Nanocomposite on Cotton Fabric Surface with Enhanced Photocatalytic Activity. WenJun Li, China	Photocatalytic desizing of PVA-sized cotton fabric. Sanjay Kumar Bhikari Charan Panda, India	
11:45-12:00	Aerogel applications in textile materials. Cengiz Karabulut, Turkey	Predicting air permeability of pile loop knit fabrics using fuzzy logic with type-2 fuzzy inference system. Derya Haroglu, Turkey	Co-axial aapv and ncmc-loaded wet-spun scaffolds for wound healing application. Catarina S. Miranda, Portugal	Flame-retardant textiles: a general overview. Mazyar Ahrari, Turkey	

12:00-12:15	Use of artificial intelligence for creative textile designs. Arzu Vuruskan, Turkey	Evolution of the mechanical and morphological properties of two hemp cultivars (santhica 27 and félina 34) during the dew-retted. Aurélie Decker, France	Design and development of a nanofiber reinforced multilayered cloth face mask Handan Palak, Turkey	The cationization of cotton/polyester blend. Ivana Corak, Croatia	
12:15-12:30	Use of rooted hydrophytes in developing innovative functional textiles. Sumi Haldar, India	Investigation the electrical resistance and thermal behaviour of surface mount device integrated stainless steel electronic yarn. Abdella Simegnaw Ahmmed, Belgium	Cellulose nanocrystalline-reinforced electrospun mats functionalized with antimicrobial peptides for enhanced wound healing. Marta Albertina Teixeira, Portugal	Wool Finishing for washable worsted men's jacket. Amira BELHAJ RHOUMA, France	
12:30-12:45	Multilevel full factorial design in optimizing polymer type and blend ratio for PLA/PCL and PLLA/PCL electrospun webs. Janset Oztemur, Turkey	Influence of stretching on liquid moisture transport in knitted fabrics. Małgorzata Matusiak, Poland	Investigation of some properties of pet (polyethylene terephthalate) poy yarns containing plasmonic boron nanoparticles additive. Didem Ezgi Görgün, Turkey		
12:45-13:00	Investigation of wettability measurements of protective gloves materials. Emilia Irzmańska, Poland	Spatial structure's analysis of 3D knitted spacer fabric. Aleksandra Walkowska, Poland	Bacterial inhibition via carboxymethyl cellulose-containing electrospun mats loaded with Nisin Z peptide for potential chronic wound care. Tania Tavares, Portugal		

After the end of all presentations in each panel - discussion 30 min

13:30-14:00

BREAK

14:00-14:15

Feasibility of Smart-Textiles for Vehicle-Exterior: Impact of Disturbances.
Fabian Edel, Germany

Non-stationary effects of ring rail movement in the high-speed ring spinning process with a superconducting magnetic bearing twisting system: problem and its solution.
Mahmud Hossain, Germany

TPU-based electrospun nanofibres assembled with nanowoven structure for face mask's application.
Ali Hebie, France

14:15-14:30

Sound wave absorption properties of multi-layers of different woven fabric structures.
Bethalihem Samuel, Poland

Micromechanical models for fabrics and composites made of hybrid yarns from recycled carbon fibers.
Tobias G. Lang, Germany

Innovative single and bifurcated coronary stents: From Braiding to Flexibility.
Recep Türkay Kocaman, Germany

14:30-14:45

Development of integrated in-situ actuator networks for the realization of flexure hinges for highly deformable fiber-reinforced plastic composites.
David Rabe, Germany

Simulation based development of profiled carbon rovings for concrete reinforcements.
Paul Penzel, Germany

Preparation of PVDF nanofibers by optimizing solvent properties: improved solvent viscosity and evaporation rate.
Zhongchen He, France

14:45-15:00

The influence of polyamide fibres and knitted fabric structures on thermophysiological properties.
Luisa M. Arruda, Portugal

Analysis of the local yarn elongation states during the highly dynamic stitch formation process using the example of high performance warp knitting.
Mathis Bruns, Germany

Hydrophobic and conductive cotton fabric with silver nanowires and silanes.
Alicja Nejman, Poland

<p>15:00-15:15</p>	<p>Optimization of the fiber/matrix interface and integration of a photochromic molecule in the fiber/matrix system. Barre Aden Mahad, France</p>	<p>Effect of polyester fiber shrinkage on construction characteristics of polyester/wool woven fabrics. Nuno Monteiro, Portugal</p>			
<p>15:15-15:30</p>	<p>Modernisation of Curricula in Technical and Smart Textiles Carla Hertleer, Belgium</p>	<p>A review of LCAM datasets and Sève whiteness proposal. Azmary Akter Mukthy, Czech Republic</p>			

After the end of all presentations in each panel - discussion 30 min

END OF THE 1st DAY

DAY 2 | 08 JUNE 2022

9:30-9:40

Short welcome speech by Professor Katarzyna Grabowska, Conference Chair, Poland

9:40-10:10

Keynote Speaker: Professor Rimvydas Milašius, Kaunas University of Technology, Lithuania

10:10-10:40

Keynote Speaker: Professor Satoko Okubayashi, Kyoto Institute of Technology, Japan

10:40-10:50

CONFERENCE ANNOUNCEMENTS

10:50-11:00

BREAK

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11:00-11:15	Sensing properties and characteristics of the elastic sensing webbing. Shi Yanan, China	Melt spinning of polyethylene composite fibers containing disentangled ultra-high molecular weight polyethylene. Xiang Yan, China	Tunable silica nanofibrous structures in view of resolving challenging purification and separation obstacles. Eva Loccufier, Belgium	Halochromic properties of a 5-aminoimidazole-4-carboxamidrazone and its application to wool. Ana Isabel Ribeiro, Portugal	
11:15-11:30	Examination of materials for Fused Filament Fabrication (FFF) of stab protectors for personal protective clothing. Dominik Muenks, Germany	Effect of Tensile Strength of Lignocellulosic Himalayan Nettle Fibers by Chemical Treatment. Kumaresan K, India	Development of a plasma activated multifunctional polyester fabric using zinc oxide nanoparticles and citronella oil microcapsules. Behnaz Mehravani, Portugal	Synthesis of mix chitin esters. Anna Bednarowicz, Poland	

11:30-11:45	Comparison of composites containing technical embroidery and woven fabric as reinforcement. Agata Poniecka, Poland	Experimental and Numerical Evaluation of Force Transduced by Interactive Fibre Rubber Composite Structures. Achyuth Ram Annadata, Germany	Evaluation of textile-based electrodes for ECG monitoring in dog. Abreha Bayrau Nigusse, Belgium	The Effect of Flame-retardant Finish on Jute and Jute-Cotton Fabrics. Most Setara Begum, Lithuania	
11:45-12:00	Sustainable and multifunctional natural fiber-based electric wire sheaths for smart textiles. Behnaz Mehravani, Portugal	Research on surface geometry of woven fabrics of different structure. Gabriela Kosiuk, Poland	Sustainable surface modification of textile with Ag-doped TiO ₂ /polysiloxane nanocomposite for antibacterial, UV protection, and flame retardant properties. Mohammad M Rashid, Slovenia	Dyeing of cotton with madder using (bio)mordants: effects on fastness and UV protection properties. Cátia Alves, Portugal	
12:00-12:15	Knitted interdigital capacitive strain sensor for wearable applications. Ayşe Feyza Yılmaz, Turkey	Modelling the eddy current testing process of carbon fibre textiles. Johannes Mersch, Germany	Analysis of pressure parameters in orthopedic footwear for people suffering from diabetic foot syndrome. Melania Mikołajczyk-Solińska, Poland		
12:15-12:30	Textile ballistic shields with embroidered structure. Maciej Gloger, Poland	Comparison of the fineness and mechanical properties of hemp fiber conditioned in two different relative humidity environment. Aurélie Decker, France			

After the end of all presentations in each panel - discussion 30 min

13:00-13:30

BREAK

13:30-13:45		Effects of the Alginate and CaCl ₂ concentrations imparting mechanical and morphological properties of wet spun fibers. Erard Annaëlle, France			
13:45-14:00		Analysis of thermal aging effect on the tensile strength of textile materials intended for the reinforcement of conveyor belt. Tsegaye Sh. Lemmi, Poland			
14:00-14:15		Comparative evaluation effects of thermal degradation, burning behavior, and intumescent char formation of cotton fabrics coated with alkaline and acidic casein solutions Muhammad Sajid Faheem, Czech Republic			
14:15-14:30		Numerical simulation of tensile fracture for HMWPE yarns using virtual fibers. Yu Wang, France			

After the end of all presentations in each panel - discussion 30 min

END OF THE 2nd DAY

DAY 3 | 09 JUNE 2022

9:30-9:40	Short welcome speech by Professor Katarzyna Grabowska, Conference Chair, Poland
9:40-10:10	Keynote Speaker: Professor Izabella Krucińska, Lodz University of Technology, Poland
10:10-10:40	Keynote Speaker: Professor Dominique Adolphe, Université Française d’Egypte, Egypt
10:40-10:50	CONFERENCE ANNOUNCEMENTS
10:50-11:00	BREAK

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11:00-11:15	Evaluation the resistance of pre-deformed multi-layer 3D fabrics against knife penetration. Mengru Li, China	Heating profile of electro-conductive weft-knitted composite fabrics during cyclic deformation. Reazuddin Repon, Lithuania			Comparison between local temperature distribution under clothing and on clothing. KyoungOk Kim, Japan
11:15-11:30	Preliminary studies on the preparation and properties of chitosan nonwovens modified with acid vapors. Dominik Sikorski, Poland	In-situ stress analysis of fiber reinforced plastics by using integrated textile-based piezoresistive sensors. Hung Le Xuan, Germany			Knowledge-based personalized pattern design of leggings for mass customization using support vector machine modelling. Zhujun Wang, China

<p>11:30-11:45</p>	<p>Experimental study of the tack of flax fibers based thermoplastic composite reinforcements. Mathieu Joannes, France</p>	<p>Investigation of sewing parameters caused fabric damages. Serkan Boz, Turkey</p>			<p>Development of ozone effecting system without using harmful chemicals. Irem PALABIYIK, Turkey</p>
<p>11:45-12:00</p>	<p>Innovative thermally stabilized low twist hybrid yarns from recycled carbon fibre for thermoplastic composites. Mir Mohammad Badrul Hasan, Germany</p>	<p>Moisture transport in woven fabrics containing cotton fibers. Dominika Kamińska, Poland</p>			<p>Entrepreneurial process in textile and clothing industry: an overview of European practices. Nikolay Sterev, Bulgaria</p>
<p>12:00-12:15</p>	<p>Anthropometry variation during resting positions adopted by bedridden and reduced mobility patients. Miguel Carvalho, Portugal</p>	<p>Sorption properties of half-milano rib knit fabrics. Norina Asfand, Lithuania</p>			<p>Analysis of digital skills in the textile and clothing industry through e-learning. Carla Hertleer, Belgium</p>
<p>12:15-12:30</p>	<p>Fabrication of UV-responsive chromic system using nanospider device and its photofatigue behavior under continuous mode of UV irradiance. Utkarshsinh Solanki, Czech Republic</p>	<p>Accelerated hydrolysis of pla fibers at low temperature. Anita Tarbuk, Croatia</p>			<p>Earth – Humanity – Sustainability – Future – Education. Andrej Desmar, Slovenia</p>

<p>12:30-12:45</p>	<p>Flowable 2D textile structures for the production of thermoplastic 3D FRP parts with continuous fiber reinforcement between shell and rib. Sven Hellmann, Germany</p>	<p>Numerical analysis of the dynamic thread stretching process. Aleksandra Prążyńska, Poland</p>			<p>Linking co-creation to modularity to respond to consumers expectations and improve production efficiency. Paulo Martins, Portugal</p>
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After the end of all presentations in each panel - discussion 30 min

END OF THE 3rd DAY

DAY 4 | 10 JUNE 2022

9:30-9:40

Short welcome speech by Professor Katarzyna Grabowska, Conference Chair, Poland

9:40-10:10

Keynote Speaker: Professor Elsayed A. Elnashar Kafereisheikh University, Egypt

10:10-10:40

Keynote Speaker: Doctor Xin Wang, RMIT University, Australia

10:40-10:50

CONFERENCE ANNOUNCEMENTS

10:50-11:00

BREAK

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11:00-11:15	Friction spun yarns with high rCF content for thermoset composites. Mir Mohammad Badrul Hasan, Germany	Hyperelastic modelling and simulation for forming process of the braided fabrics. Jinlei Li, France			Magnificent Blue (DENIM). Pratya Singh, India
11:15-11:30	Effect of footwear material on the plantar pressure of diabetic foot. Paraskevas Papanikos, Greece	Walking simulator for the electrostatic testing of floorcoverings. Hasan Tahir, Belgium			Identification of wearing comfort of the textile uppers of commercial footwear. Patrycja Kaziur, Poland
11:30-11:45	Development of Sensor Design for Smart Kinesiotape for future sensing applications in motion capturing. Hans Winger, Germany	Elastic recovery of full plaited knitted fabric. Amany Khalil, Czech Republic			Solvent-based recycling of polypropylene from waste carpets: an investigation on the leaching behaviour of carpet components. Nuray Kizildag, Turkey

11:45-12:00	Development of stretchable conductive hybrid yarn for wearable electronics application. İbrahim Adel Khamis Ahmed, Turkey	The effect of fiber length change on the mechanical properties of epoxy composites filled with short carbon fibers. Jana Novotná, Czech Republic			Organizations, creativity and job satisfaction - symbiosis in a Portuguese case study. João Barata, Portugal
12:00-12:15	Seamless Integration of Textile-electronics in Knitted fabrics for personalized Health. Emanuel Gunnarsson, Sweden	Hydrostatic resistance dependence on the structure and the use of gradient measurement. Pavla Tesinova, Czech Republic			Seam performance of bi-stretch denim fabrics. Hatice Kübra Kaynak, Turkey
12:15-12:30	Developing and assistive technology for individuals with visual impairment: smart glove concept. Başak Süller Zor, Turkey	Effect of knit stitches percentage on physical parameters of weft-knitted fabrics. Sikander Abbas Basra, Lithuania			

After the end of all presentations in each panel - discussion 30 min

13:00-13:30

CLOSING SESSION AND INFORMATION ABOUT NEXT AUTEX CONFERENCE