

16th Int. Conference CLOTECH 2026, 16-17 September, Katowice

Draft of the program with accepted papers. State 14.6.2026. At least one author have to register for the conference in order to present paper or poster.

Wednesday, September 16th

Location: [The Academia of Silesia](#)

Rolna 43, 40-555 Katowice, Poland

Exhibition Opening 17:30

Welcome Party 18:00 PM - 19:30 PM.

Thursday, September 17th

Registration opens			08:00
Opening Speeches			09:00
Monika Bogustawska - Bączek - Organizer Clotech 2026			
Official greetings			
Yordan Kyosev, Clotech and CBI - historical remarks			
Inga Dabolina - Organiser Clotech 2028			
KeyNote: From Glass Illusion to High-Gloss Glamour: Synthetic Materials and the Aesthetics of Shine in Fashion from the 1930s to the Present		Sylvia Romecka-Dymek	09:40
KeyNote: Beyond Static Avatars: 4D Body Scanning for Real Fit Prediction		Sandra Alemany	10:10
Coffee Break			10:40
Parallel Section A			
Body Scanning			11:00
Use of custom avatars and 3D virtual fitting to develop competition shirt designs for collegiate female equestrians	Sachintha Maweeekumbure Gedara	11:00	
Evaluation of Methods for Dynamic Measurement in 4D Body Scans	Jacob Hoßfeld; Lilly Römer; Yordan Kyosev	11:20	
Generation of Knitable 3D Graphs from NURBS-Based Geometries Using Scalar Field, Level Sets and Nonlinear Smoothing	Franz Dietrich	11:40	
Integrating 4D Scanning and 3D-Printed Phantoms for Interface Pressure Measurement in Compression Sleeve	Engin Akçağün	12:00	
Standards for 3D Body Processing and the 3D Body Processing Ecosystem	Carol McDonald	12:20	
		12:40	
Lunch Break			13:00
Automation, Robotics and AI in the Clothing Industry			14:00
A State of Art Review, AI-driven design, pattern generation, and material analysis	Estefany Peraza Melendez Ingrid; Yordan Kyosev	14:00	
AI-Driven Fashion Trend Analysis: A systematic review in the framework of Erasmus+ Project "FashionAlse"	Ioannis Karvelis; Papahristou Evridiki	14:20	
Textilfabrik 7.0: Rethinking Industry – Shaping the Future!	Clara Hermsen, Rona Redeker	14:40	
Artificial Intelligence in Smart Textile Systems: Materials, Sensing, Manufacturing, and Intelligent Quality Control	Asif Ahmed	15:00	
Developing sustainability competencies through iterative DBR-informed fashion design education: Evidence across four course implementations in Germany and Iran	Hanieh Choopani	15:20	
Coffee Break			15:40
Poster Section			16:10
Haptics			16:30
Exploratory investigation of the correlation between acoustic quantities and the abrasion stress on textile surfaces	Anselm Naake; Felix Kunzelmann	16:30	
Investigation about the possibility for geometric reproduction of textile and paper surfaces with hydrogel based materials	Niklas Schmidt; Yordan Kyosev, et. Al.	16:50	
Coffee Break			10:40
Parallel Section B			
Sustainability			11:00
Advancing Circularity in Fashion: The Synergy of Mass Customization, 3D Virtual Simulation, and Sustainable Personalization	Agnieszka Cichocka	11:00	
Circular garment - Experiment with water dissolvable sewing thread	Annette Kölling	11:20	
Performance of Labelling System for Life Cycle Transparency in the Fashion Industry	Inga Breitmozeré	11:40	
Sustainable Coloration of Textiles using Coreopsis tinctoria Nutt for Eco-friendly Natural Dye Applications.	Masud Alam Md	12:00	
Sustainable Ajrak: Preserving Heritage Through Eco-Friendly Textile Production	Aftab Ahmed	12:20	
		12:40	
Lunch Break			13:00
Properties and Quality Testing			14:00
Parametric Design of Functional Women's Smart Shirts from 3D Body Scans for Flat Knitted Manufacturing	Pulkit Mishra	14:00	
Programmed Elasticity via Geometric Fiber Reservoirs for Stretchable Embroidered Meshes	Robert Tonndorf	14:20	
Biosurfactant-Based Antimicrobial Modification of Fleece Textiles, Tomasz Buratowski, Vita Nehorui	Michal Petru; Olga Paraska	14:40	
Possibilities for Adaption of a textile Orthosis based on 3D-Scan and X-Ray Data	Anselm Naake, Felix Kunzelmann	15:00	
A Flat-Knitting-Based Integrated Reversible Modular Electrical Interface for E-Textiles	Yutian Du	15:20	
Coffee Break			15:40
Poster Section			16:10
Functional Clothing, Protective Clothing, Forensics			16:30
Enhancing the Cut Resistance of Basalt-Based Protective Clothing Through Reduced Graphene Oxide (rGO) Modification	Agnieszka Cichocka	16:30	
Modular Fire Fighter Equipment for Waste Prevention and Usage Improvement	Justin Kühn, Jan Jordan	16:50	

5:30 PM - Departure from the university to the Silesian Museum	17:30
6:00 PM - 7:00 PM Museum tour - learning about the history of the Silesia region	18:00
8:00 PM Gala Dinner	20:00

Friday, September 18th

Keynote: Exposure to fire – skin and clothing surface temperatures during realistic exercise	<i>Kalev Kuklane</i>				09:30
Keynote: Novel device for objective multimodal sensing evaluation of textiles	<i>Alexander Grüner; Stephanie Zöhlius</i>				10:00
Parallel Section A (Haptics)				Parallel Section B	
Fashion		10:30		Functional Clothing, Protective Clothing, Forensics	10:30
Core - experimental garment prototype translates posture and body movement into a textile surface	<i>Nurşah Çağlar</i>	10:30		Assessing the Forensic Discriminatory Potential of Blue Cotton Fibres Derived from Denim Fabrics	<i>Jolanta Wąs-Gubała</i> 10:30
Eco-Concept Art in Fashion Design within Sustainable Fashion and Upcycling Practices	<i>Inga Tomala; Monika Bogustawska-Bączek</i>	10:50		Improvement of Methods for Enhancing the Protective Properties of Workwear for Builders	<i>Dilmira Abdujabborova</i> 16:50
Natural Dyeing Techniques in Contemporary Art.	<i>Katarzyna Schmidt-Przewoźna</i>	11:10		Analysis of Material Degradation in Uniforms Through Comparison of New and Outworn Fabrics	<i>Beatrise SANTA, Inga DĄBOLIŃA</i> 17:10
Threads of Heritage: Ethiopian Traditional Dress as a Source of Inspiration in Contemporary Textile Art, Fashion Design, and Visual Culture	<i>Getu Temesgen Dr. Alhayat</i>	11:30			
Coffee Break		11:50		Coffee Break	11:50
Comfort and Customer Interaciton		12:20		Properties and Quality Testing, Smart Clothing	12:20
Comfort of compression cover: thermophysical property vs pressure	<i>Olena Kyzymchuk</i>	12:20		A narrative literature review on the use of wearables for assessing physical workloads.	<i>Konstantin Wagner</i> 12:20
Development of Modular-Functional Sportswear for Adaptive Athletes Based on Ergonomic Modeling and Biomechanical Analysis	<i>Abdujabborova Dilmira Ana Černiavskaja, Kristina Ancutienė, Tomas Kuncius</i>	12:40		Evaluating Knit and Woven Jacquard Cotton Fabrics Comfort Properties with Kawabata and Tactile Sensation Analyzer	<i>Imranul Islam Md</i> 12:40
3D Printing on Textiles: Application for Functional Compression Garments	<i>Kuncius</i>	13:00		Predicting Multiphase Transport in Technical Textiles via CFD approach	<i>Bianca Eleonora</i> 13:00
Lunch Break		13:20		Lunch Break	13:20
Closing the conference					

Posters List

1	4D Body Scanning for Dynamic Assessment of Seat Belt Webbing Displacement and Its Relation to Movement Comfort for fully Autonomous Vehicles	<i>Lennart Hellweg</i>
2	Comparative Analysis of Thermoregulatory and Cardiovascular Responses in Fully Encapsulated Protective Clothing During Seated Rest, Upper-Limb Exercise, and Treadmill Walking	<i>Joo-Young Lee, Maria Stenkina</i>
3	Comparative Thermal Skin Penetration by Graphene and Other Carbon-Based Radiant Heaters for Wearable Heating Applications	<i>Joo-Young Lee, Suhyeon Yeom</i>
4	Consumer Preference Study for Material Properties	<i>Valeriia Tukhanova</i>
5	Effects of Ambient Relative Humidity Conditions on Thermo-physiological and Psycho-perceptual Responses During Wet-Sheet Cooling	<i>Yoon Jeong Baek, Maria Stenkina, Hoyeon Jeong, Suhyeon Yeom, Joo-Young Lee</i>
6	Forensic Approaches to Comparing Red Garments	<i>Jolanta Wąs-Gubała</i>
7	Head-Neck Alignment-Based Cervical Pillow Enhances Sleep Physiology and Comfort: A Controlled Sleep Study	<i>Jae-Yeon Jung, Yonghyun Cho, Subin Chung, Joo-Young Lee</i>
8	Study of the Sorption Properties of Textile Materials	<i>Halina Szafrńska, Natalia Bereznenko, Ryszard Korycki</i>

Poster submissions are still possible.

End of Early Bird Registration 30th June 2026

Deadline Full Manuscript for Peer Review Process for Springer Book of Proceedigns
30th Juni 2026 (on request, you can get extension up to 2-3 weeks)