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Nota di contenuto	Frontmatter -- Contents -- Innovative Textile Materials and Processing -- Fabrication of Myristic Acid-Containing PMMA Structured PCM Nanofibers for Thermal Energy Storage -- The Role of Solvents on Dispersion of Cellulose Nanocrystals in Polylactide Matrix -- Dyeing Behaviour of Poplar Fiber with Reactive Red Dye -- Thermoregulating Properties of Viscose Ring Spun Yarns Modified with Phase Change Material (PCM) Microcapsules -- Motorcycle Helmets: Materials, Technologies, and Standards Used -- Sustainable Technics in Fashion Industry- Bio Materials and Virtual Prototyping (Practic Application) -- Comparative Study of Attachments of 3D Printed Protective Elements in Textile Armor Vests for Resistance Strength -- Digital Product Development for TCLF Industry -- Generation of Yarn Scale FEM Models of Weft Knitted Structures with Different Patterns -- A Sustainable Approach to the Development of Personalised Clothing - Digital Graphic Tools -- Development of Stage Costumes for Singers of Pop and Folk Music -- Unveiling the Invisible: A Discourse on Augmented Reality Fabric with Cryptic Message Activation -- Reinterpreting Traditional Moldovan Style: Adapting Costumes for Hotel Service Uniforms -- Digital Reconstruction and Simulation of an Archaeological Brocade Fabric in Arahne -- Science and Technology of Textile Machinery -- Effect of Non-Woven Interlayer on Mode II Fracture Toughness of Multilayer Glass/Epoxy Composites -- Effect of Nanoclay

Mixing on Physical, Mechanical and Dyeability Properties of Melt-Spun Polypropylene/Nanoclay Nanocomposite Fibers -- Foldable Lines for Weft Knitted Fabrics with Origami-Like Design -- Smart Textiles, Medical Textiles, Composites -- Development of Thermochromic and Thermoregulating Cotton Fabrics Using Different Types of Dispersing Agents in Microcapsule Application -- Microencapsulation and Characterization of the Eutectic Mixture of Lauric Acid and Stearic Acid Into Gelatin/Gum Arabic Shell by Complex Coacervation Method -- Incorporation of Heparin to Electrospun Vascular Grafts for Antiplatelet Properties -- Heat Transfer Effect for the Leather Conductor -- Analysis and Value Engineering Applied to Smart Textiles - Diabetic Sock with Temperature and Humidity Monitoring Module -- Artificial Intelligence Applied in Textiles -- Virtual Try-On, an Applied Science Evolving the Acquisition Practises of Consumers -- Harnessing AI for Sustainable Fashion: A Case Study on Mavi's Tech Fusion Collection -- Innovations in Textile Dyeing and Finishing -- Eco-Friendly Dyeing of Hemp Fabrics Using Natural Dyes as an Alternative to Synthetic Dyeing Methods -- Poly (Methyl Methacrylate-Co-Glycidyl Methacrylate)/1-Tetradecanol Microcapsules for Textile Applications -- Capacity Analysis in a Textile Dyeing Laboratory: A Case Study of Waste Identification Diagram -- Physicochemical Wool Functionalization to Achieve Anti-Felting Characteristics -- Comfort, Quality of Textiles and Sensory Evaluation -- Study Regarding the Identification of the Anthropometric Data of Children Born Premature -- Investigation of the Comfort Properties of Multilayer Woven Fabrics with Different Weft Yarns -- Effect of Laundering on UV Protection Performance of Umorfil Based Fabrics -- Initial Studies on Functional Clothing Products for Individuals with Physical Disabilities -- A Sustainable Diversification Strategy for Stretch Denim Production: "In-House" Washing of Finished Fabrics -- Graphical Procedure for Estimating Optimum Yarn Spinning Parameters by Response Surface Methodology -- Footwear Design and Technology -- Industry 5.0 in the Footwear Sector: A Romanian Perspective -- Advances in Leather Processing -- Smart Leather Produced Through Repeated In-Situ Polymerizations Processes -- Constructive-Technological Aspects of Obtaining Clothing Products Made of Leather and Fur - Specific to the Popular Ports on the Territory of the Republic of Moldova -- Recycling, Life Cycle Analysis, Sustainability and Circularity -- Sustainable Fashion Consciousness and Behaviour of Apparel Producers in Lagos, Nigeria -- Application of the Principle of Sustainability in Designing a Garment Collection for Women -- Implementing Sustainability Aspects in Fashion Design Education: Best Practice Example with Use-Less Product Lifecycle -- Evaluation of Exposure to the Action of Plastic Particles in the Industrial Environment -- Pretreatment Conditions of Mushroom Mycelium as a Leather Substitute -- Enhancing Denim Sustainability: A Case Study on the Adoption of Regenerative Cotton -- Application of Solar Energy in the Textile Industry: A Case Study of N. Macedonian SMEs -- Cellulose Nanocrystals from the Soft Shell of the Pistachio Nut (Pistacia L. vera) -- Digital Lean Manufacturing in the Textile Industry -- Unveiling a Paradigm Shift in Fashion Design Through Circularity: A Khadi Capsule Collection with Reintegrated Elements and Jute Accessories -- Development of Nutrient-Added Nonwoven Seedling Bags -- Study of the Shredding Parameters of Pla Waste Used in Making Filaments for 3D Printing -- Entrepreneurship and Innovation -- Evaluating the Digitalization Needs of the Romanian Organizations -- The Relationship Between Innovation and Sustainability, the Impact of Innovation on Sustainability in the Pharmaceutical Industry -- Qualitative Analysis of Innovative Entrepreneurship in Various Forms of

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Sommario/riassunto

The Romanian Textiles and Leather Conference is a major international scientific event organized every two years in Iasi by the Faculty of Industrial Design and Business Management of the Gheorghe Asachi Technical University of Iasi, Romania. This year, the 19th Romanian Textiles and Leather Conference – CORTEP 2024, will take place from November 7 to 9, 2024, and will combine live presentations (on-site) with virtual presentations (online). The 18th Romanian Textiles and Leather Conference The conference offers professionals and executives from the textile, clothing, leather, and footwear industry (TCLF), as well as entrepreneurs, a platform for the exchange of knowledge, new ideas, and experiences. It also provides insights into the latest developments and the current state of research. The framework of the conference will be supported by the following interdisciplinary topics: Artificial Intelligence applied in textiles Innovative textile materials and processing Science and technology of textile machinery Smart textiles, medical textiles, composites Digital product development for the TCLF industry Comfort, quality of textiles, and sensory evaluation Innovations in textile dyeing and finishing Recycling, life cycle analysis, sustainability, and circularity Advances in leather processing Footwear design and technology New business models and emergent ecosystems Entrepreneurship and innovation Engineering education The main objective of the 19th Romanian Textiles and Leather Conference is to publish the peer-reviewed, accepted, and presented research articles for the current edition of the conference as Open Access Proceedings. This ensures that all interested parties have unrestricted and free access to all content after publication, with authors, reviewers, and editors adhering to publication ethics. CORTEP 2024 will be the second edition of the conference for which the accepted papers will be published as Open Access Proceedings by Sciendo (De Gruyter Poland) and indexed in various databases. Submission of articles via the Editorial Manager: https://www.editorialmanager.com/cortep/default2.

aspx Organizing Committee Scientific Committee Managing EditorsRodica Harpa, Gheorghe Asachi Technical University of Iasi, RomaniaCristina Piroi, Gheorghe Asachi Technical University of Iasi, RomaniaAdrian Buhu, Gheorghe Asachi Technical University of Iasi, RomaniaMihaela Brîndua Tudose, Gheorghe Asachi Technical University of Iasi, Romania Language EditorLuminia Ciobanu, Gheorghe Asachi Technical University of Iasi, Romania Conference webpage: https://www.cortep.tuiasi.ro/ Contact: cortep@groups.tuiasi.ro Conference Founder: Gheorghe Asachi Technical University of Iasi, Romania Conference Programhttps://www.cortep.tuiasi.ro/program/ ‹A href="https://sciendo-storage-bucket.s3.eu-cen