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2ND INTERNATIONAL CONFERENCE
ON DESIGN & INDUSTRY · 2026

MARCH, 25 - 27 2026

BOOK OF ABSTRACTS

MARIA JOÃO FÉLIX | PAULO CRUZ | FÁTIMA POMBO | FERNANDO MOREIRA DA SILVA | RITA ASSOREIRA ALMENDRA

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NEEDS DEFINITION AND REQUIREMENTS TRANSFORMATION FOR AN AUTONOMOUS FOOT SCANNING SYSTEM

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This article presents a structured approach to identifying needs and defining requirements in the development of an autonomous foot scanning device, carried out within the scope of the FAIST Project – Sustainable and Technological Smart Agile Factory. Addressing the growing demand for personalization, ergonomic adaptation, and sustainability in the footwear industry, the adopted methodology focuses on the analysis of usage scenarios and the functional application of the system. Based on a process that combines a review of the state of the art with the definition of a usage guide, the study translates operational, technical, and aesthetic needs into clear and concrete system requirements. The resulting framework contributes to the development of more efficient and coherent devices, designed for effective performance in real usage contexts within the footwear sector.

Keywords: *Foot scanning, Footwear industry, Sustainability, Customization, System requirements*

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PAPER ID [19]

DO IT SMALL. DO IT LOCAL. CO-DESIGNING NEW USES FOR EDIBLE BY-PRODUCTS WITH SMES

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This paper analyses the integrated application of Systemic Design and Food Design principles across three experiments conducted by the PoliTo Food Design Lab with local Small and Medium-sized Enterprises (SMEs). The objective of this study is to evaluate the potential of this approach in facilitating the valorisation of agro-industrial by-products and activating more circular production models. Through a comparative analysis of the case studies, the contribution reflects on the lessons learned and addresses the question of how co-design between academia and industry can generate a transformative impact within the local agro-industrial context. The results suggest the potential of design, as a discipline, to promote the transition towards more circular models, activating transformative

processes within SMEs, facilitating new synergies among small local actors. Furthermore, the research indicates that design can promote a dialogue between innovation and the renewal of the territorial entrepreneurial network.

Keywords: *Systemic Design Approach, Food Design, Co-Design, Byproducts, Small and Medium-sized Enterprises, Case Studies.*

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DELPHI METHOD — SELECTING AND REDUCING VARIABLES TO STUDY FASHION DESIGNERS' SELF-PERCEIVED CREATIVITY

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This study aims to demonstrate the application of the Delphi Method for selecting specific variables to assess Portuguese fashion designers' self-perceived creativity through a questionnaire. Recognizing that creativity is not an isolated trait but is influenced by various surrounding contexts, an in-depth literature review identified many potentially relevant variables, resulting in an excessively long initial questionnaire (226 items). To refine and reduce the number of items, the Delphi Method was employed, involving 12 specialists currently active in the field. This article outlines the methodological procedures, from expert selection to the analysis of results. The objective was achieved over two survey rounds, during which the expert panel worked toward consensus on which topics and variables should be included in the final instrument. Statistical validation was conducted using Kendall's coefficient of concordance (W) and descriptive measures such as mean and standard deviation, supporting the reliability of expert consensus across rounds. As a result, the number of items was reduced from 226 to 72, covering individual, team, organizational, and societal factors, with academically grounded criteria supporting each decision.

Keywords: *Delphi Method, Questionnaire, Creativity, Fashion Design, Portugal*

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