1. Record Nr. UNINA9910450248803321

Autore	Lam Po Sharon
Titolo	Textile design and engineering of fibrous materials [[electronic resource] /] / Sharon Lam Po
Pubbl/distr/stampa	Bradford, England, : Emerald Group, 2004
ISBN	1-280-51502-3 9786610515028 1-84544-359-4
Descrizione fisica	1 online resource (288 p.)
Collana	International Journal of Clothing Science and Technology. No. 1/2 ; ; Vol. 16
Disciplina	677.4
Soggetti	Textile fabrics Polymers Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	CONTENTS; Editorial advisory board; Abstracts; French abstracts; German abstracts; Editorial; On-demand production system of apparel on the basis of Kansei engineering; Improvement of drape simulation speed using constrained fabric collision; Real-time per-pixel rendering of textiles for virtual textile catalogues; Smart clothing: a new life; Developing portable acoustic arrays on a large-scale e-textile substrate; Thermal regulating functional performance of PCM garments; The mechanics of plain woven fabrics; Fibrous assemblies: modeling/computer simulation of compressional behaviour Processing and quality of cashmere tops for ultrafine wool worsted blend fabricsTactile sensory analysis applied to silk/cotton knitted fabrics; The challenge of changing from empirical craft to engineering design; Handling evaluated by visual information to consider web-consumers; Modelling strategies for liquid spreading in medical absorbents; The study of pressure delivery for hypertrophic scar treatment; Design of textile scaffolds for tissue engineering: the use of biodegradable yarns; Material design and textile science for specialty textiles technologies

Folding algorithms and mechanisms synthesis for robotic ironingTrajectory and orientation analysis of the ironing process for robotic automation; Acquisition, placement, and folding of fabric materials; Study of relationship between fabric elastic potential and garment appearance quality; Design of the system for prediction of fabric behaviour in garment manufacturing processes; Design and engineering challenges for digital ink-jet printing on textiles; Colour specification at the design to production interface; Note from the publisher

Sommario/riassunto

This paper argues for the immediate use of Kansei engineering to help deal with the chaotic situation of poorly implemented and disconnected technologies. A theoretical criticism of the current industrial capitalism, together with the promotion of a new postindustrial form of capitalism, lays the foundation for an explanation of how this transition can be achieved through a proper understanding of Kansei. A detailed explanation of the interactive production system apparel demonstrates the benefits to both manufacturers and consumers. The paper concludes that the application to apparel is just