PHAROS UNIVERSITY ALEXANDRIA



جامعة فاروس الاسكندرية

Publications Template

#	Research Title	Field	Abstract	Year of Publication Publishing	Publishing Link "URL"
1	Employing Embroidery and Digital Printing Skills in the Production of Contemporary Artistic Paintings Inspired by Heritage	Fashion and Textiles	We currently live in the era of globalization, where advanced modern technology is widespread, which has negatively affected Arab values and legacies. This has resulted in the replacement of Arab doctrine with foreign ones, which do not match our Arab personality and values. For this reason, there is much emphasis of reviving our heritage and producing sophisticated and aesthetical works of art using this technology. From this starting point, the researcher found that it is possible to combine digital printing an manual embroidery skills, by directing students to produce artist paintings inspired by designs from our heritage, as well as contemporary modern trends. This approach can introduce new techniques for application, some of which have been taught to students during their years in university, linking them to society encouraging innovation and creativity, and taking advantage of the skills they have acquired during their undergraduate years. Manu embroidery and digital printing are among the most important methods for decorating clothes and furnishings with different materials and techniques. Thus, combining these two methods ca be an important form of artistic expression. This study aims to gut third-year students in the Fashion Design Department, at the Facu of Arts and Design, Pharos University in Alexandria, to employ their embroidery and printing skills in a new and innovative mann with the purpose of producing pieces of art with a distinguished aspect to revive our heritage. The produced paintings were evaluad	of on al e nd ic 7 7 7, he nal an ide ilty y her, d	<u>https://journals.ekb.eg/arti</u> <u>cle_186786.html</u>
		Page 1 of 4 Rev. (1) Date (30-12-2	مستوى سرية الوثيقة: استخدام داخلي Publications Template Document Security Level = Internal Use	Doc. No. (PUA–IT–P01–F14) Issue no.(1) Date (30-12-2020)	

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			by art specialists and artists for their innovative aspects. Furthermore, que were statistically analyzed. Statisticall found between the produced artwor aesthetic, functional, and creative aspe of the judging specialists and artists. between the opinions of the jury regar their ability to combine between the and digital printing, to revive heritag trends.	estionnaire results of the y significant differences ks in achieving the desirects, according to the opi Correlations were also for ding the produced artwo skills of manual embroid	jury were red nions ound ork in dery		
2	A new method for measuring the static and dynamic fabric/garment drape using 3D printed mannequin	Textiles	The study aims to develop a cloth dimensional (3 D) printed mannequin, for both the static and dynamic states. the new drapemeter gives researcher and/or the garment for the static and instrument. Methodology: Other facto could also be tested at low fabric cons is scaled (i.e. smaller than the size of comparison between the real and virt test the effectiveness of the virtual r taken for the actual fabric/garment of those of the virtually designed skirts. image processing software, to study the affecting it. Results: From this study, t ines led to a reduction in the draped and of the skirt depending on its design ra- increased by the increment of the rota drapemeter. It could be concluded that recommended to be commercially use garment drape, in the static and dynamic	where drape can be mea The modification achiev s the ability to test the fa l dynamic drapes, using or rs affecting the garment sumption since the mann- of the human body). Also tual skirts was performed nethod. Digital photos w on the drapemeter, as well They were analyzed usin he drape behavior and fa he increasing number of rea, while increasing the aised it. Also, the draped ation speed of the disk of at the developed apparati- ed in predicting the fabric	Isured ved in bric bric one drape equin b, a d, to vere Aj an ctors vere angle area f the us is c and	pril 2021	https://www.tandfonline.c om/doi/abs/10.1080/0040 5000.2021.1917803
		Page 2 of 4 Rev. (1) Date (30-12-202	مستوى سريـة الوثيّقة: استخدام داخلى Document Security Level = Internal Use	Publications Template	Doc. No. (PUA - Issue no.(1) Date	-	

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			was that the virtually designed skirts were different from the actus skirts.	al	
3	A System Dynamics Model of Apparel Supply Chain Under Mass Customization	Industrial Engineeri ng	Mass customization could be considered as a new trend in the apparel industry. Not only, the fashion industry has limitations o the short life cycle and low predictability market but its supply cha also faces many obstacles to achieve this customization with a hig level of customer satisfaction and more flexibility at low cost. Th present study aims to address the factors affecting the performance of supply chain. That's why a survey and individual interviews ha held with apparel supply chain professionals in order to focus or these factors and construct the relationship among them through simulation and modeling using a system dynamic approach. The results have revealed that the product variety, lead time, return policy and quality levels affected dramatically the supply chain profit under mass customization. Moreover, some potential areas have been suggested for further studies in order to enhance the supply chain profitability whenever mass customization system i applied within the apparel industry.	ain gh ne ce vve n 2019 e s	https://www.tandfonline.c om/doi/abs/10.1080/0040 5000.2021.1917803
4	Microcellulose particles for surface modification to enhance moisture management properties of polyester, and polyester/cotto n blend fabrics	Textiles	In this work we studied the effect of surface treated fabric by applying Microcrystalline Cellulose (MCC) Particles using two different procedures. The first method was to dissolve MCC particles and form a MCC solution which further was blended with textile binder to obtain the fabric coating. The second treatment w direct blending MCC particles with same textile binder in order t get the fabric finishing to be sprayed on the fabric surface. The percentage of MCC particles was chosen 6%, as this ratio can be considered the most appropriate one. The effect of these treatmen on fabrics moisture wettability with varying percentage of coatin was studied. It was concluded that the second method by sprayin MCC Particles directly on the fabric surface gives superior	h a yas 20 2015 e its g	https://www.sciencedirect. com/science/article/pii/S1 110016815000150
		Page 3 of 4 Rev. (1) Date (30-12-2	مستوی سریة الوثیقة: استخدام داخلی Publications Template Document Security Level = Internal Use	Doc. No. (PUA–IT–P01–F14) Issue no.(1) Date (30-12-2020)	

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	solving study u fabric su	roved fabric's wettability and moisture management than the MCC and coating the fabric surface. The morphological using SEM confirmed the presence of MCC particles on the urface; therefore, intensification fiber surface energy leads to ease the wicking properties and increase the rate of water absorption.	

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