

「校際傑出學術論文授權暨發表會」

論文摘要表

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論文名稱	合成皮革紋理影響在視覺與視觸共覺複合感官上之研究
英文論文名稱	The study on the effects of synthetic leather texture on the visual and visual-tactile synesthesia
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學位類別	碩士
校院名稱	國立成功大學
系所名稱	工業設計學系
學年度	99
語文別	中文
中文關鍵詞	合成皮革、感性工學、視覺感官、視觸覺感官
外文關鍵詞	Synthetic Leather, Kansei Engineering, Visual Sense, Visual-tactile synesthesia
中文摘要	「皮革材質」自古就大量運用在各方面，隨著環保與保育意識的抬頭，「合成皮革」漸漸

取代了天然皮革，同樣有著天然皮革的細緻觸感，卻有更多樣不同的紋理展現。因此，本研究將運用感性工學方法來探討各種合成皮革紋理對於受測者之感性喜好，透過不同感官的差異感受，提供給產品設計者與皮料開發商未來選用與設計之建議參考。

本研究以市面上廣泛流通使用之合成皮革進行樣本搜尋，後續再以視覺與視觸覺感官進行實驗，以瞭解各種紋理在感官知覺上的差異，透過專家分群與篩選後總共選出二十個樣本，針對感性意象形容詞，則透過問卷調查及 Focus Group 分群後，擷取出四個具代表性語彙意象群，以進行視覺與視觸覺複合感官實驗。研究結果顯示合成皮革紋理形式與光澤在視覺感官上佔有重要的影響性，而在視觸覺感官上合成皮革紋理形式、紋理感知面積、皮革軟硬度則佔有重要的影響性，也表示說視覺和觸覺之間具有不同的感知差異性。視覺仍是主要決定意象偏向的感官因素，而針對偏向觸覺之意象語彙群，觸覺感官決定意象偏向高於視覺感官，也代表視覺感官無法完全模擬觸覺感官。

英文摘要

Since the ancient time, the leather material was used extensively in many ways. Due to the rise of environmental protection consciousness and conservation, "synthetic leather" has gradually replaced the natural leather, the same fine leather has a natural feel, but shows more different texture. Therefore, this study will use the method of Kansei Engineering to discuss on the how the synthetic leather texture influences the interviewees' feelings through different sense experiences. It should provide the reference for the product designers and leather material developers.

This study has searched the samples of widely circulated synthetic leather on the market. then following the experiment on the visual and tactile senses that to understand the difference of the sensory perception in various texture. After selected by experts to choose 20 samples that grouping by questionnaire and focus group to select 4 representative vocabularies for the emotional adjectives, that to process the experiments of visual and tactile senses. The result shows the texture and brightness of synthetic leather had significant influences on visual sense. However, the texture, superficial content and hardness have the important influence on tactile sense, which means there is the difference between visual and tactile senses. The visual sense is the major factor affects imagery preference. Nevertheless, regarding to the vocabularies of tactile sense, the percentage of tactile sense is higher than visual which shows the visual sense cannot completely imitate the tactile sense.