

Advanced Functional Clothing CAD Simulation System

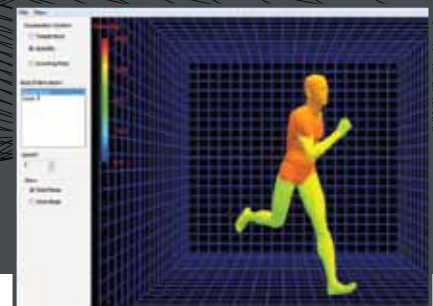
先進服裝功能設計CAD仿真系統

Rounds of sample making are needed and production steps taken before a piece of functional clothing is accomplished. Time and money spent on it until it satisfies the consumers' functional and aesthetical demands, and it may raise the production costs.

The advanced clothing functional design CAD simulation technologies provide a multi-style garment thermal functional design simulation which can estimate the best material and garment requirements needed for environment- / weathered- related situations. It increases efficiency and decreases production costs by saving time and money invested on sample making.

由設計到成功生產一件功能服裝，需經不少步驟才能把服裝從外觀到功能上滿足到消費者的要求，當中投放的時間和金錢，都是令生產成本上漲的重要因素。

這項先進服裝功能設計CAD仿真技術提供多種服裝款式的熱功能設計模擬技術，可以透過電腦軟件來模擬出不同環境或天氣情況下的服裝製作要求，減少翻來覆去製作實物樣辦所花的金錢和時間，從而提升效率，降低生產成本。



Application 應用

User can follow the instructions in a user-friendly interface of the CAD system, inputting the information step by step. The factors include weather and environmental factors such as temperature, humidity, wind velocity; human activities such as sitting, running and dancing; human model factors such as sex, age, height and weight; garment features such as fibre and fabric properties. The simulation programme helps garment manufacturers evaluate the combination of fabric functional properties and environmental parameters, in turn design the functional clothing with the best functional features.

這個CAD設計系統設有方便易用的介面，用戶只需一步一步跟隨電腦指示，輸入所需資料，包括特定的天氣/環境因素，例如溫度、濕度、風速；衣服需要應用於那種活動，例如坐下、跑步、跳舞；消費群的生理考慮，例如性別、年齡、高度、體重；服裝特性，例如纖維、布料特性。經過電腦軟件的模擬運算，評估所輸入的功能性設計與外在環境參數是否配合，協助用家選擇最佳的技術參數設計功能性服裝。

Industry Benefits 業界效益

The virtual design function allows efficient product development with reasonable cost. Users can update the database by themselves to achieve a wider scope and tailor-made application. The software is also a useful tool for training institutions offering courses on design and product development. Students can make use of the interactive platform to understand better the influence of different factors such as weather, environment and biological elements on clothing design.

這項先進服裝功能設計CAD仿真技術可以為製衣業帶來一個節約省時的生產技術，而且用戶更可因應生產所需，自行更新資料，設定更適合本身業務的資料庫。此外，除了應用在製衣業上，教育培訓機構亦可在有關產品開發的課程中，利用這系統讓學生在一個互動平台上更了解不同天氣、環境、生理構造等因素對成衣功能性設計的影響。

Licensing Details 獲取專利

A non-exclusive license of CAD simulation technology for clothing thermal engineering design includes:

- Database of materials, 3D human body models and garment pieces of different styles
- Thermal functional design CAD software, thermal functional simulation software and thermal functional visualisation software for both multi-layer clothing and multi-style clothing

有關服裝熱功能設計CAD仿真技術的非獨家專利授權許可包括：

- 具有布料選擇、立體人型及服裝樣片多種範圍的資料庫
- 應用於多層服裝計算與多樣服裝款式的熱功能設計軟件、熱功能設計仿真模擬軟件及熱功能可視化軟件

Funding
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The Hong Kong Research Institute of Textiles and Apparel 香港紡織及成衣研發中心

R906, Shirley Chan Building, The Hong Kong Polytechnic University, Kowloon, Hong Kong 香港九龍香港理工大學陳鮑雪瑩樓R906室
T (852) 2627 0180 F (852) 2364 2727 E info@hkrita.com www.hkrita.com