

國立臺灣大學技術行銷表

台大案號: 06A-100514 (由產學合作中心填寫)

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產品/技術名稱	(可自行以較適合/較生活化的名稱代替, 而不一定要呈現出"專利名稱") 記憶拼貼桌
發明人/單位	梁容輝、吳文中、楊之穎、李仰璧、林逸筑、江政達、鄭翔文 / 智慧生活科技整合與創新研究中心
產品/技術說明	(非機密性技術內容描述, 以供推廣或外界參考 (100 字內)) 一種互動式多點觸控電腦系統, 包含一互動板、一影像擷取裝置、一物件資料庫、一處理器及一投影裝置。物件資料庫中的物件識別資料包括一對一實體物件所作的特性描述及對應該特性描述的一控制指令。處理器針對影像擷取裝置所擷取之影像與該等特性描述比對, 當比對符合, 則判斷為有實體物件接觸互動板, 並計算實體物件之座標, 且執行該特性描述所對應之控制指令。投影裝置將控制指令執行結果投影至互動板。藉此, 使用者可藉由將預設之實體物件擺放到互動板上, 甚至旋轉、移動實體件而使電腦系統產生預設之互動反應。
應用範圍	(可以列舉的方式說明) 網路相簿、互動式影音系統、家庭娛樂系統...
產品/技術優勢	(與現有之技術相比較後, 列舉此項技術的優點) 提供一種藉由偵測實體物件在互動板上之狀態而產生操控指令的互動式多點觸控電腦系統。讓不熟悉電腦操作的使用者, 可以利用日常生活物件, 以直覺的操作方式瀏覽數位檔案。
市場潛力	(可用量化方式說明市場潛力, 或預估可帶來的效益等) 本系統可藉由擴充所需功能發展為家庭娛樂系統, 進一步結合智慧家庭相關技術, 提供一個創新的生活經驗。
產品/技術 智財權保護方式	(由產學合作中心填寫)

Marketing Abstract of NTU's Invention Disclosure

NTU's docket no: _____ (由產學合作中心填寫)

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Title	Memory Bricolage Table
Inventor (s)	Rung-Huei Liang, Wen-Jong Wu, Chih-Ying Yang, Yang Bee Lee, Yi-Chu Lin, Cheng-Dar Chiang, and Shiang Wen Cheng. / Center of INnovation and Synergy for IntelliGent Home Technology
Brief Description	<p>(≤ 100 words of non-confidential information)</p> <p>An interactive multi-touch computer system includes an interactive board that is partially light transmissible and partially reflective, an image capture device, an object database, a processor, and a projector. Object identified data in the object database includes a characteristic description of a physical object, and a control instruction corresponding to the characteristic description. The processor compares the image captured by the image capture device with the characteristic description, if they match each other, the processor concludes that the physical object contacts the interactive board, and computes coordinates of the physical object. Then, the processor executes the control instruction corresponding to the characteristic description. The projector projects the result of the execution of the control instruction to the interactive board. Therefore, a user can enable the computer system to perform a predetermined interactive reaction by putting the physical object on the interactive board or by rotating or moving the physical object on the interactive board.</p>

Fields of Application	Web albums 、 Interactive Audio-Visual systems 、 Home Entertainment Systems...
Advantages	<p>(When compared to the existing technologies)</p> <p>This interactive multi- touch computer system enables the non-PC user to interact with digital files via manipulating everyday objects with intuition.</p>
Market Potential	<p>By expanding the required functions, this interactive multi-touch computer system has the ability to become a home entertainment system, and further integrates with smart home technologies and provides an innovative living experience.</p>
IP Right(s)	