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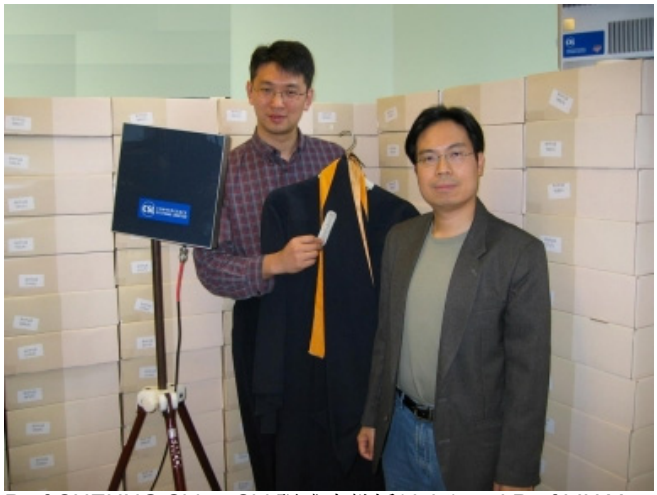
RFID Streamlines the Management of Academic Regalia
科大將無線射頻識別技術應用到管理畢業袍

The Department of Computer Science & Engineering and Cyberspace Center experts at the Hong Kong University of Science and Technology (HKUST) have adopted Radio Frequency IDentification (RFID) to everyday application. The application of RFID technology will streamline the process of Campus Services Office in managing the academic regalia inventory.

Since the implementation of internet-based graduation services system in 2002, graduate can sit back to place and receive their regalia order at home before the Congregation. Afterwards, graduate may return the regalia to laundry shops at Hong Kong, Kowloon & New territories areas. Undoubtedly, a reliable and fully automated system will further enhance the efficiency in handling the flow of every single piece of regalia among the store, laundry shops & graduates.

With the help of RFID technology, all academic regalia will be tagged. Unlike traditional barcode systems, RFID reader can identify numerous RFID tags within a short distance. Tags can be designed to suit objects of any shapes and sizes. Most importantly, tags can even be detected accurately with random orientations inside the metallic storage racks. All academic regalia set will firstly be stitched with the specially designed RFID tags before checking out. When the academic regalia are returned, the system can identity each item and the inventory can duly be updated.

This RFID technology application is a pilot trial. HKUST will further apply RFID to any area when it is suitable. It is believed that the RFID technology will be a leading technology in product tagging system in future.



Prof CHEUNG Shing Chi 張成志教授(right) and Prof LIU Yun Hao 劉云浩教授(left)

香港科技大學計算機科學及工程學系的專家近日於日常生活引用了無線射頻識別技術(RFID)。我們現正爲校園服務處研發如何應用RFID而令管理畢業袍可以變得更靈活及簡化有關程序。

自從二零零二年網上畢業服務系統的啓用後，畢業同學出席畢業典禮前，即使足不出戶亦能登記租用所需的畢業袍。畢業袍之後更會送到每個同學的家中。同時在畢業典禮過後，同學只需將畢業袍交還到家居附近的洗衣店。所以一個可靠及更自動化的系統確能加強處理畢業袍的效率。

引進了RFID技術後，每件畢業袍都可被貼上識別標籤從而令它們易於在整個流程內加以識別。有別於傳統的條碼系統，RFID讀取器可於特定距離內識別大量標籤。不同設計的標籤可配合不同形狀及大小的物件使用。就算畢業袍被儲存

在金屬的流動架內，所有標籤均可於不同方向及角度被準確識別。所有畢業袍被學生借用前都會被貼上一條經過特別處理的RFID標籤。學生歸還畢業袍時，RFID系統可審視在整個運送流程中每件畢業袍的正確位置。尋找、對應及識別畢業袍的提存紀錄等工作就會變得更有效率和靈活。

這一項RFID的應用是一項新嘗試。香港科技大學會將RFID技術引進到其他合適的應用。科技專家亦相信RFID技術將會成爲商品標籤化系統中的主導技術。

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