

國立台灣大學技術行銷表

台大案號: 06A-100109 (由產學組填寫)

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產品/技術名稱	雙光源鋪面檢測裝置及演算法
發明人/單位	台灣大學
產品/技術說明	本發明提出一種雙光源鋪面檢測裝置，其包括一雙光源照明設備、一影像擷取裝置、一運算單元及演算法。其雙光源照明設備將分別配置於影像擷取裝置之左右兩側，其影像擷取方法係以單側光具提供光源並擷取第一張影像後換以另一側光具提供光源並擷取第二張影像，後將此方式所取得之影像透過演算法進行鋪面檢測，其演算法係將兩張影像相減後合為單一影像，此影像將突顯鋪面不平整之處。
應用範圍	<ol style="list-style-type: none"> 1. 道路鋪面破損偵測 2. 道路鋪面破損辨識 3. 道路鋪面破損維護
產品/技術優勢	<ol style="list-style-type: none"> 1. 減低檢測過程中光度不均對影像所產生之影響 2. 減低檢測過程中路面髒汙對影像所產生之影響 3. 有效偵測道路鋪面破損 4. 提供高辨別度之影像資料並有效突顯鋪面破損特徵 5. 大幅降低檢測所需成本
市場潛力	提升道路鋪面破損之檢測效率並大幅降低檢測所需成本
產品/技術 智財權保護 方式	(由技轉組填寫)

Marketing Abstract of NTU's Invention Disclosure

NTU's docket no: _____ (由技轉室填寫)

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Title	Dual-light pavement inspecting device and algorithm
Inventor (s)	National Taiwan University
Brief Description	The present invention relates to a dual-light pavement inspecting device and algorithm, comprising a dual-light equipment, a camera capture utility, a computing unit and algorithm. A dual-light equipment placed on each side of camera capture utility. The camera capture utility need to take two images with different light. The computing algorithm subtracts two images and merges into one image which can enhance the distress of pavement.
Fields of Application	<ol style="list-style-type: none"> 1. Pavement distress detection 2. Pavement distress identification 3. Pavement distress maintenance
Advantages	<ol style="list-style-type: none"> 1. Reduce the influence of Illumination during inspection. 2. Reduce the influence of dirty stain during inspection. 3. Improve the efficiency of pavement distress detection. 4. Provide the image which can enhance the distress of pavement. 5. Reduce the cost of pavement inspection.
Market Potential	Improve the efficiency and reduce the cost of pavement inspection.
IP Right(s)	(由技轉室填寫)