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7th International Conference on Computer and Communication Engineering, ICCCE 2018; Kuala Lumpur; Malaysia; 19 September 2018 through 20 September 2018; Category numberCFP1839D-USB; Code 142740

Material Classification of Recyclable Waste using the Weight and Size of Waste (Conference Paper)
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Nowadays, insufficient landfills problem had increased the needs to decrease the waste and recycling them. However, despite the efforts done by the government and local authorities on promoting recycling culture by introducing new laws and regulations, the awareness and willingness among the community is still low. One of the possible reasons to this is lack of effort to categorize the waste into the designated category which are paper, glass, plastic and metal. In order to address this problem, it is important to design a system that will ease the process of categorizing the waste. This can be achieve by the automation of the said process. In this work, a system consist of an algorithm and hardware to automatically categorize recyclable waste is proposed. The proposed system are utilizing weight sensor and ultrasonic sensors in order to capture the characteristics of the waste item, which are weight and size so that it can be categorized into paper, glass, plastic and metal. Here, an algorithm to compensate minimum usage of hardware, namely the type and number of sensors is presented. © 2018 IEEE.

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Author keywords

Material classificationRecyclable wasteUltrasonic sensorWeight sensor

Indexed keywords

Engineering controlled terms:Computer hardwareGlassHardwareLaws and legislationUltrasonic sensors

Engineering uncontrolled terms:Community ISLaws and regulationsLocal authoritiesMaterial classificationRecyclable wastesWeight sensors

Engineering main heading:Plastic recycling

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
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