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Discrimination of Residual and Recyclable Household Waste for Automatic Waste Separation System (Conference Paper)

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Abstract

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Most of the countries in the world are confronting a gigantic issue of waste management system. Due to the rapid urbanization and increasing population, huge volume of waste is produced year by year. Improper waste management system has created a deep concern among people which lead to disturbance to the environment and human health. In this paper, a fully automated system that discriminate residual and recyclable household waste is proposed. It is shown that the prototype system are able to automatically separate waste into residual and recyclable waste by employing a moisture sensor to sort them into wet (residual) and dry (recyclable) waste. The state of the waste is determined by its resistance to current value and the percentage of water content. © 2018 IEEE.

SciVal Topic Prominence

Topic: Solid wastes | Waste management | waste bin

Prominence percentile: 81.236

Author keywords

Dry waste Moisture sensor Recyclable waste Residual waste Waste separation system Wet waste

Indexed keywords

Engineering controlled terms: Automation Moisture control Moisture meters Separation

Engineering uncontrolled terms: Fully automated Moisture sensors Prototype system Rapid urbanizations Recyclable wastes Residual wastes Waste management systems Waste separation

Engineering main heading: Waste management

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- RFID application in municipal waste management system
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(2018) International Journal of Engineering and Technology(UAE)

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References (8)

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-
- 1 Chandramohan, A., Mendonca, J., Shankar, N.R., Baheti, N.U., Krishnan, N.K., Suma, M.S.
Automated Waste Segregator
- (2014) Proceedings - 2014 Texas Instruments India Educators Conference, TIIEC 2014, art. no. 7899202, pp. 1-6. Cited 2 times.
ISBN: 978-146738922-8
doi: 10.1109/TIIEC.2014.009
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-
- 2 Pushpa, M.S., Sivakumar, N., Kunwar, A.R., Patel, S.K., Kumar, S.
Design and development of an automatic clustered, assorted trash segregation system
- (2016) 2016 IEEE International Conference on Recent Trends in Electronics, Information and Communication Technology, RTEICT 2016 - Proceedings, art. no. 7807852, pp. 409-413. Cited 2 times.
ISBN: 978-150900774-5
doi: 10.1109/RTEICT.2016.7807852
- [View at Publisher](#)
-
- 3 Rajkamal, R., Anitha, V., Nayaki, P.G., Ramya, K., Kayalvizhi, E.
A novel approach for waste segregation at source level for effective generation of electricity - GREENBIN
- (2014) 2014 International Conference on Science Engineering and Management Research, ICSEMR 2014, art. no. 7043540. Cited 4 times.
ISBN: 978-147997613-3
doi: 10.1109/ICSEMR.2014.7043540
- [View at Publisher](#)
-
- 4 Chinnathurai, B.M., Sivakumar, R., Sadagopan, S., Conrad, J.M.
Design and implementation of a semi-autonomous waste segregation robot
- (2016) Conference Proceedings - IEEE SOUTHEASTCON, 2016-July, art. no. 7506679. Cited 2 times.
ISBN: 978-150902246-5
doi: 10.1109/SECON.2016.7506679
- [View at Publisher](#)
-
- 5 Fernandes, C.L., Gonsalves, G.B., Dessai, D.D., Lotlikar, D.S., Cardoso, S., Bosco, D.
(2017) Waste Moisture Sensing Unit for Waste Sorter Machine, 4 (11), pp. 557-560.
-
- 6 Wahab, M.H.A., Kadir, A.A., Tomari, M.R., Jabbar, M.H.
Smart recycle bin: A conceptual approach of smart waste management with integrated web based system
- (2014) 2014 International Conference on IT Convergence and Security, ICITCS 2014, art. no. 7021812. Cited 17 times.
ISBN: 978-147996541-0
doi: 10.1109/ICITCS.2014.7021812

- 7 Sejera, M., Ibarra, J.B., Canare, A.S., Escano, L., Mapanoo, D.C., Suaviso, J.P.
Standalone Frequency Based Automated Trash Bin and Segregator of Plastic Bottles and Tin Cans

(2016) IEEE Region 10 Annual International Conference, Proceedings/TENCON, art. no. 7848454, pp. 2370-2372.

<http://ieeexplore.ieee.org/xpl/conhome.jsp?punumber=1000751>

ISBN: 978-150902596-1

doi: 10.1109/TENCON.2016.7848454

[View at Publisher](#)

- 8 Reis, P., Pitarma, R., Gonçalves, C., Caetano, F.
Intelligent system for valorizing solid urban waste

(2014) Iberian Conference on Information Systems and Technologies, CISTI, art. no. 6876904. Cited 6 times.

<http://ieeexplore.ieee.org/xpl/conferences.jsp>

ISBN: 978-989984343-1

doi: 10.1109/CISTI.2014.6876904

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