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Towards a Robust Solution for the Supermarket Shelf Audit Problem: Obsolete Price Tags in Shelves


| Conference paper | First Online: 27 November 2023

| pp 257–271 | [Cite this conference paper](#)



Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications

(CIARP 2023)



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Abstract

Shelf auditing holds significant importance within the retail industry's industrial sector. It encompasses various processes carried out by human operators. This article aims to address the issue of identifying outdated price tags on shelves, bridging the gap of an automated shelf audit. Our proposal introduces a minimum viable process that effectively detects, recognizes, and locates price tags using computer vision and deep learning techniques. The outcomes of this study demonstrate the robustness of our approach in generating a comprehensive list of price tags on shelves, which can be subsequently compared with a database to identify and flag obsolete ones.

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Acknowledgements

This work has been partially supported by the ESPOL-CIDIS-11-2022 project and Tiendas Industriales Asociadas Sociedad Anonima (TIA S.A.). The authors would like to acknowledge TIA S.A., a leading grocery retailer in Ecuador, for providing access to an incredible environment for research and testing.

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Cite this paper

F. Morán, E., X. Vintimilla, B., A. Realpe, M. (2024). Towards a Robust Solution for the Supermarket Shelf Audit Problem: Obsolete Price Tags in Shelves. In: Vasconcelos, V., Domingues, I., Paredes, S. (eds) Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications. CIARP 2023. Lecture Notes in Computer Science, vol 14469. Springer, Cham. https://doi.org/10.1007/978-3-031-49018-7_19

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DOI	Published	Publisher Name
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