

E³UDRES²

Engaged and Entrepreneurial European University as
Driver for European Smart and Sustainable Regions

4.13 Co-publication in international peer-reviewed scientific journals (Q1/Q2)

Work Package 4

September 2023

Authors: WP4 members and Researchers

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Overview

Deliverable nr.	Deliverable name	Person responsible	Corresponding HEI
D 4.13	Co-publication in international peer- reviewed scientific journals (Q1/Q2)	WP4 members and researchers	IPS

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Brief summary

This document provides an overview of the publications in journals by the WP4 researchers during the whole period of the funding (October 2021-September 2023).

1. Introduction

The researchers actively contributing to the work package 4 (WP4) have been divided in three i-R&D networks, namely, Circular Economy (CE), Human Contribution to Artificial Intelligence (HCtAI) and Well Being and Ageing (WBA).

Since October 2021, three pilot projects have been running, one per network. These projects are:

- **Change cornEr**¹ (CE network)
- **MULTISENS²E**² Multi-Sensor Monitoring for Smart and Sustainable Farming in Europe (HCtAI network)
- **VirtualGym**³ (WBA network)

The results from these projects have been published in some scientific publications and are listed in the following sections, divided by network.

2. List of publications by the CE network

Book Chapter

- Serralha, F., Anderluh, A., Santos, B., Radványi, D., Lešcevic, M., Mesbahi, Z., Carriço, N., Nolz P., De Coninck S., Galatanu S.V., (2023). *The Contribution of Urban Domestic Waste Management to the Circular Economy*. In *Handbook of Research on Solving Societal Challenges Through Sustainability-Oriented Innovation*, 159-181. IGI Global, <https://www.igi-global.com/gateway/chapter/320870>

Conference proceedings

- Anderluh, A. and Nolz, P. (2022), "Cargo Bikes for Sustainable Last Mile City Logistics", *Conference Proceedings of the 20th STS Conference Graz 2022, Critical Issues in Science, Technology and Society Studies*, presented at the 20th STS Conference Graz 2022, Verlag der Technischen Universität Graz, Graz, pp. 21–33, doi: [10.3217/978-3-85125-932-2-02](https://doi.org/10.3217/978-3-85125-932-2-02).
- Paz, M. C., Serralha, F. N., Carriço, N. (2023). A bibliometric analysis of the plastic waste. In: Domingues, N.A.S, Calado, C.R.C., Leitão, N.C. (Eds.) *Conference Proceedings of the 1st International Conference on Challenges in Engineering, Medical, Economics & Education: Research & Solutions (CEMEERS-23)*, Lisbon, Portugal, pp. 140-141, doi: [10.17758/EIRAI19](https://doi.org/10.17758/EIRAI19), uri: [10400.26/45447](https://www.ripublication.com/10400.26/45447)
- Galaşanu S.V., Serralha F.N., Mărghiţaş M.P., Şoşdean C., Popa C.F., Linul E., Marşavina L., Mechanical behavior of recycled FDM printed parts from PETG in the circular economy, *Proceedings of the Structural Integrity and Reliability of Advanced*

¹ For more information, visit <https://eudres.eu/changecorner>

² For more information, visit <https://eudres.eu/multisense>

³ For more information, visit: <https://eudres.eu/virtualgym>

Materials obtained through Additive Manufacturing (SIRAMM23), Timisoara, Romania, Paper submitted for Procedia Structural Integrity (Elsevier), 2023 (in review).

Publications in peer-reviewed journals (submitted)

- Soares, S., Serralha, F., Paz, M.C., Carriço, N., Galatanu, S.V. (2023). Unveiling the Data: A Bibliometric Analysis of Plastic Waste and Recycling with Emphasis on the Nine European Countries of the EUDRES Alliance. Manuscript submitted for publication to Helyon journal.

3. List of publications by the HCtAI network

Publications in peer-reviewed journals

- Madeira, R.N., Santos, P.A., Java, O., Priebe, T., Graça, E., Sárközi, E., Asprion, B., Gómez, R.P.B. (2022). *Towards Digital Twins for Multi-Sensor Land and Plant Monitoring*. Procedia Computer Science (210).
<https://doi.org/10.1016/j.procs.2022.10.118>

Conference proceedings

- Java, O., Asprion, B., Priebe, T., Sárközi, E., Madeira, R.N. (2022). *Application of Digital Technology in Agriculture: Potential Support for Winegrowers*. 8th TAE 2022, 196-201

4. List of publications by the WBA network

Conference proceedings

- Totorean, A., Lancere, L., Horsak, B., Simonlehner, M., Stoia, D.I., Crisan-Vida, M., Moco, D., Fernandes, R., Gere, A., Sterckx, Y., Zulkarnain, A., Gal-Nadasan, N., Stoia, A. (2023) *Heart Rate and Surface Electromyography Analysis to Assess Physical Activity Using a Virtual-Reality Exergame*, Proceedings of the 17-th Conference AVMS-2023", Springer Proceedings in Physics, ISSN 0930-8989 (peer-reviewed, publishing in process)
- Zulkarnain, A., Totorean, A., Gere, A., Cruz, E., Horsak, B., Lancere, L., Schoeffer, L., Simonlehner, M., Crişan-Vida, M.M., Fernandes, R., Sterckx, Y. (2022). *Development of a social inclusive immersive virtual reality exergame to promote physical activity*. Fourth International Conference on Food Science and Technology, Budapest, Hungary. ISBN 978-615-01-5422-0

Publications in peer-reviewed journals (In the stage of proof-reading for submission)

- Zulkarnain, A., Totorean, A., Gere, A., Cruz, E., Horsak, B., Lancere, L., Schoeffer, L., Simonlehner, M., Crişan-Vida, M.M., Fernandes, R., Sterckx, Y. (2023/2024) *Virtual reality exergames for improving physical health and well-being. A comprehensive review*. In the stage of proof-reading for submission. Will be submitted to "Virtual Reality" journal, ISSN: 1434-9957

5. Conclusions

During the first period of funding of the alliance (October 2021-September 2023) the researchers more actively collaborating in WP4 co-published: 1 book chapter, 1 paper in peer reviewed journal, 6 papers in conference proceedings and prepared 2 other publications to be submitted to peer reviewed journals.

Even though none of the publications appeared in international peer reviewed Q1/Q2 journals, as it was planned in the beginning, the number of overall publications is a good indicator of the vitality of the networks so far, especially given that the researchers did know each other beforehand and a three year period is short for starting entirely new collaborations and lines of research. Provided collaboration can be continued, more impactful results should come naturally in the next few years.