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# Correction: From machine learning to digital twin integration for livestock production and research

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## KEYWORDS

animal behavior analysis, digital twin, health, livestock production, care, Machine Learning, predictive analytics

## A Correction on

### From machine learning to digital twin integration for livestock production and research

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There was a mistake in [Tables 1](#) and [2](#) as published.

In [Table 1](#), one category was missing. In [Table 2](#), the total reference number was updated. The corrected tables appears below.

There was a mistake in the caption of [Table 1](#) as published.

The corrected caption of [Table 1](#) appears below.

“[Table 1](#). The 195 references distribution by journal/source.”

In Section 2.2, Paragraph 2, there was a mistake in the total reference number.

This section has been corrected:

“The review mainly focused on original research and review articles, complemented by selected studies for advanced methodological. While searches were in English, the keywords used for relevant articles, including but not limited to: “machine learning,” “deep learning,” “artificial intelligence,” “digital twin,” “precision livestock farming,” “smart farming,” “sensor- based monitoring,” “IoT,” “genomic prediction,” “animal health monitoring,” and “livestock decision support systems.” The initial selection focused on titles and abstracts to eliminate irrelevant records and duplicates. The final dataset comprised 195 references, representing a comprehensive, multi-species, and multidisciplinary set of articles ([Tables 1, 2](#)).”

The original version of this article has been updated.

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TABLE 1 The 195 references distribution by journal/source.

| Journal/Source                                       | No. of articles |
|------------------------------------------------------|-----------------|
| Animals (MDPI)                                       | 34              |
| Sensors (MDPI)                                       | 17              |
| Agriculture/Electronics/Applied Sciences (MDPI)      | 14              |
| Journal of Animal Science                            | 12              |
| Computers and Electronics in Agriculture             | 11              |
| Journal of Dairy Science                             | 9               |
| Poultry Science                                      | 9               |
| Frontiers Journals (Vet Sci, Anim Sci, AI, Genomics) | 14              |
| Scientific Reports                                   | 8               |
| Animal/Livestock Science/Meat Science                | 14              |
| Genetics/Genomics Journals                           | 11              |
| AI/Data Science/Engineering Journals                 | 11              |
| Conference Proceedings (IEEE, IFAC, others)          | 7               |
| Books/Book Chapters (Springer, Elsevier)             | 4               |
| Other journals (single-occurrence sources)           | 20              |
| The total                                            | 195             |

TABLE 2 Overall summary by livestock category.

| Category          | Number of references |
|-------------------|----------------------|
| Poultry           | 48                   |
| Ruminants         | 79                   |
| Pig/multi-species | 68                   |
| Total             | 195                  |