

# Erratum

## Erratum to “Clustering-Based Granular Representation of Time Series With Application to Collective Anomaly Detection”

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IN THE above article [1], the important technical background was inadvertently omitted in Section III, “Similarity Measurement of Granular Time Series.” This omission may have led to a lack of clarity and could have impacted the readers’ understanding of the methodological foundation of our research.

The omitted technical background pertains to the methodology applied in calculating the subsequence similarity of granular time series. The method developed was inspired by the work presented in [2], which did not receive due acknowledgment in the original article. Furthermore, our approach extends the concepts from [2] to include second-order difference analysis and employs the Dice coefficient [3] to examine the importance coefficients  $\alpha_1$  and  $\alpha_2$ .

The correct acknowledgment and details are as follows:

“The authors extend their gratitude to the foundational work by Du et al. [2], which provided the inspiration for their

method of calculating subsequence similarity in granular time series, with a particular focus on second-order differences. In addition, the authors employ the Dice coefficient, as discussed by Dice [3], to assess the importance coefficients  $\alpha_1$  and  $\alpha_2$ . This framework strengthens the analytical rigor of their study.”

The authors regret this oversight and apologize for any inconvenience this may have caused to the readers and the potential misinterpretation of the methodological rigor of the study.

We appreciate the opportunity to clarify this matter and ensure that the readers are provided with a complete and accurate understanding of our research methodology.

## REFERENCES

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