

# Erratum to: A knowledge discovery from full-text document collections using clustering and interpretable genetic-fuzzy systems

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In the above named paper [7], two approaches have been used to build the proposed hybrid system: i) data clustering technique and the idea of its application to text-document clustering and to automatic detection of the number of clusters in the document collections (outlined in Subsection 2.2) as well as ii) method of designing interpretable fuzzy rule-based systems and the concept of its application to knowledge discovery from data (outlined in Subsection 2.3). Both of these approaches were developed in co-authorship with Prof. Marian B. Gorzałczany and published in our earlier works, e.g., [1], [2], [6], and [3] (also cited in the paper) as well as other papers, e.g., [4], [5]. A brief descriptions of these techniques were included in the paper in order to maintain its consistency. However, unfortunately, the descriptions were prepared on the basis of our earlier works without any knowledge and consent of their co-author Prof. Marian B. Gorzałczany. Appropriate consent was granted after the publication of the paper. The author would like to apologize for this mistake.

## References

1. Gorzałczany, M.B., Rudziński, F.: Cluster analysis via dynamic self-organizing neural networks. In: L. Rutkowski, R. Tadeusiewicz, L.A. Zadeh, J.M. Żurada (eds.) Artificial Intelligence and Soft Computing - ICAISC 2006, *Lecture Notes in Computer Science*, vol. 4029, pp. 593–602. Springer-Verlag, Berlin (2006)
2. Gorzałczany, M.B., Rudziński, F.: WWW-newsgroup-document clustering by means of dynamic self-organizing neural networks. In: L. Rutkowski, R. Tadeusiewicz, L.A. Zadeh, J.M. Żurada (eds.) Artificial Intelligence and Soft Computing - ICAISC 2008, *Lecture Notes in Computer Science*, vol. 5097, pp. 40–51. Springer-Verlag, Berlin (2008)
3. Gorzałczany, M.B., Rudziński, F.: Handling fuzzy systems accuracy-interpretability trade-off by means of multi-objective evolutionary optimization methods - selected problems. *Bulletin of the Polish Academy of Sciences Technical Sciences* **63**(3), 791–798 (2015)
4. Gorzałczany, M.B., Rudziński, F.: A multi-objective genetic optimization for fast, fuzzy rule-based credit classification with balanced accuracy and interpretability. *Applied Soft Computing* **40**, 206–220 (2016)

5. Gorzalczany, M.B., Rudziński, F.: Interpretable and accurate medical data classification - a multi-objective genetic-fuzzy optimization approach. *Expert Systems with Applications* **71**, 26–39 (2017)
6. Gorzalczany, M.B., Rudziński, F.: Generalized self-organizing maps for automatic determination of the number of clusters and their multiprototypes in cluster analysis. *IEEE Transactions on Neural Networks and Learning Systems* **29**(7), 2833–2845 (2018)
7. Rudziński, F.: A knowledge discovery from full-text document collections using clustering and interpretable genetic-fuzzy systems. In: *Multimedia and Network Information Systems - Proceedings of the 11th International Conference MISSI 2018*, Wrocław, Poland, 12-14 September 2018, pp. 434–443 (2018)

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