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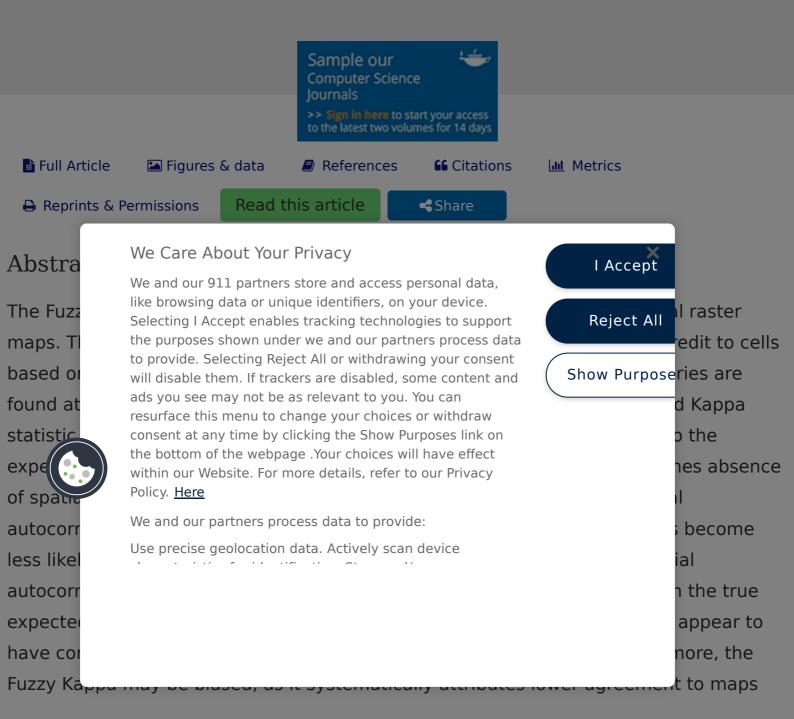
Research Articles

An improved Fuzzy Kappa statistic that accounts for spatial autocorrelation

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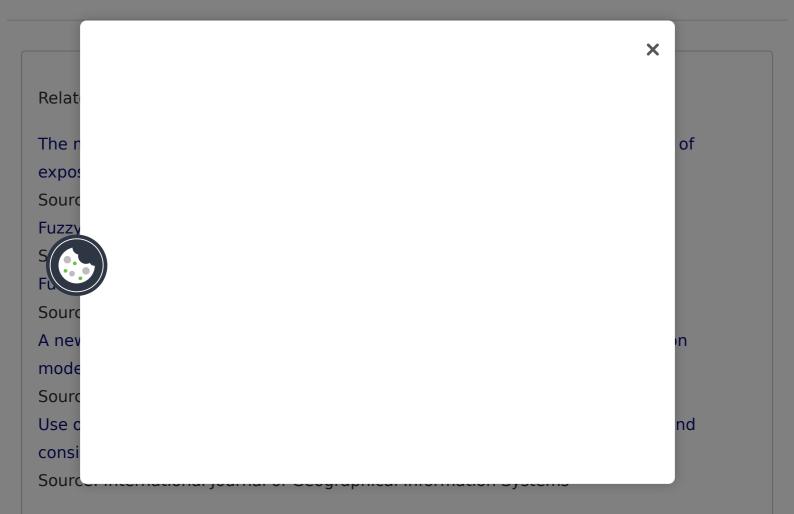
with stronger spatial autocorrelation. This paper proposes an improved Fuzzy Kappa statistic that is based on the same local agreement and has the same attractive properties as the original Fuzzy Kappa. The novelty is that the new statistic accounts for spatial autocorrelation, such that the expected Fuzzy Kappa for maps that are not cross-correlated is equal to zero. The improved statistic is applied on two cases to demonstrate its properties.

Keywords:



Acknowledgements

This paper addresses the most frequently asked question of Map Comparison Kit users: 'Why do I get negative Fuzzy Kappa values for maps that appear quite similar?' I would like to thank the users for sending their feedback and enabling RIKS to improve on the methods and software. The elaborate and detailed feedback of three anonymous reviewers has been very helpful and is greatly appreciated.



Thematic Map Comparison Source: Photogrammetric Engineering & Remote Sensing Geomorphometric landscape analysis using a semi-automated GIS-approach Source: Environmental Modelling & Software The Kappa Statistic in Reliability Studies: Use, Interpretation, and Sample Size **Requirements** Source: Physical Therapy Quantitative comparison of spatial fields for hydrological model assessment--some promising approaches Source: Advances in Water Resources Weighted kappa: Nominal scale agreement provision for scaled disagreement or partial credit. Source: Psychological Bulletin Comparison of land cover maps using fuzzy agreement Source: International Journal of Geographical Information Science Using landscape analysis to assess and model tsunami damage in Aceh province, Sumatra Source: Landscape Ecology A Coefficient of Agreement for Nominal Scales Source: Educational and Psychological Measurement Harshness in image classification accuracy assessment Source: International Journal of Remote Sensing **Trans**[;] X Sourc **Fores** Sourc Usinc

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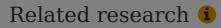
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