

International Journal of Remote Sensing >
Volume 32, 2011 - Issue 15

10,080 Views | 1,278 CrossRef citations to date | 23 Altmetric

Original Articles

Death to Kappa: birth of quantity disagreement and allocation disagreement for accuracy assessment

Robert Gilmore Pontius Jr  & Marco Millones

Pages 4407-4429 | Received 27 Aug 2010, Accepted 20 Dec 2010, Published online: 17 Aug 2011

 Cite this article  <https://doi.org/10.1080/01431161.2011.552923>

Sample our
Geography
Journals

>> **Sign in here** to start your access
to the latest two volumes for 14 days

 Full Article  Figures & data  References  Citations  Metrics Reprints & Permissions

Read this article

Abstract

The family of Kappa indices of agreement claim to compare a map's observed classification accuracy relative to the expected accuracy of baseline maps that can have two types of randomness: (1) random distribution of the quantity of each category and (2) random spatial allocation of the categories. Use of the Kappa indices has

About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click "Settings". For further information about the data we collect from you, please see our [Privacy Policy](#).

Accept All

Essential Only

Settings

comparison, and instead summarize the cross-tabulation matrix with two much simpler summary parameters: quantity disagreement and allocation disagreement. This article shows how to compute these two parameters using examples taken from peer-reviewed literature.

Acknowledgements

The United States' National Science Foundation (NSF) supported this work through its Coupled Natural Human Systems program via grant BCS-0709685. NSF supplied additional funding through its Long Term Ecological Research network via grant OCE-0423565 and a supplemental grant DEB-0620579. Any opinions, findings, conclusions or recommendation expressed in this article are those of the authors and do not necessarily reflect those of the funders. Clark Labs produced the GIS software Idrisi, which computes the two components of disagreement that this article endorses. Anonymous reviewers supplied constructive feedback that helped to improve this article.

Related research

People also read


Recommended articles

Cited by 1278



About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click “Settings”. For further information about the data we collect from you, please see our [Privacy Policy](#).

Accept All 

Essential Only

Settings

Information for

Authors

R&D professionals

Editors

Librarians

Societies

Opportunities

Reprints and e-prints

Advertising solutions

Accelerated publication

Corporate access solutions

Open access

Overview

Open journals

Open Select

Dove Medical Press

F1000Research

Help and information

Help and contact

Newsroom

All journals

Books

Keep up to date

Register to receive personalised research and resources by email



Sign me up



Copyright © 2024 Informa UK Limited Privacy policy Cookies Terms & conditions

Accessibility



Taylor & Francis Group
an informa business

Registered in England & Wales No. 3099067
5 Howick Place | London | SW1P 1WG

About Cookies On This Site

We and our partners use cookies to enhance your website experience, learn how our site is used, offer personalised features, measure the effectiveness of our services, and tailor content and ads to your interests while you navigate on the web or interact with us across devices. You can choose to accept all of these cookies or only essential cookies. To learn more or manage your preferences, click “Settings”. For further information about the data we collect from you, please see our [Privacy Policy](#).

Accept All

Essential Only

Settings