

Scheduled Maintenance: On Saturday, November 12, IEEE Xplore will undergo scheduled maintenance and be unavailable between 9:00-10:30 AM EST (02:00-03:30 PM UTC).

In addition, personal account changes made between 7:00-10:30 AM EST (12:00-03:30 PM UTC) will need to be reapplied. We apologize for any inconvenience.

IEEE.org IEEE Xplore IEEE SA IEEE Spectrum More Sites

Cart Create Personal Account Sign In



Browse My Settings Help

Access provided by: Al-Farabi Kazakh National University

Sign Out

Access provided by: Al-Farabi Kazakh National University Sign Out

All



ADVANCED SEARCH

Conferences > 2021 IEEE International Confe... ?

KazRivDyn: Toolkit for Measuring the Dynamics of Kazakhstan Rivers with a Graphics Based on Google Earth Engine

Publisher: IEEE

Cite This

PDF

Assel Ospan ; Madina Mansurova ; Erkin Kakimzhanov ; Baurzhan Aldakulov All Authors

38 Full Text Views



Alerts

Manage Content Alerts

Add to Citation Alerts

More Like This

Google Earth Engine Cloud Computing Platform for Remote Sensing Big Data Applications: A Comprehensive Review IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing Published: 2020

Analysis of remote sensing quantitative inversion in cloud computing 2011 IEEE International Geoscience and Remote Sensing Symposium Published: 2011

Show More

Abstract



Download PDF

Document Sections

- I. INTRODUCTION
- II. METHODOLOGY
- III. RESULTS AND DISCUSSION
- IV. CONCLUSION

Abstract: Now it is possible to control the change in the width of the rivers of Kazakhstan using remote sensing. This article presents a platform called KazRivDyn, developed on th... [View more](#)

Metadata

Abstract: Now it is possible to control the change in the width of the rivers of Kazakhstan using remote sensing. This article presents a platform called KazRivDyn, developed on the Google Earth Engine cloud computing platform, to monitor changes in the width of Kazakhstan's rivers over the past 20 years, with a graph for more accurate data. Due to the fact that in Kazakhstan there is a problem of reducing the volume of water in rivers, identify the general trend of changing the volume of water, as well as turn prevention to prevent such phenomena as drought and pollution. This platform has been applied to the pool. This platform flows through two countries, the darkest as the width of the river has changed since 1984. KazRivDyn is a publicly available tool and can be used to solve scientific problems related to rivers, as well as to create applications for operational water resources management. The results obtained are close to

Authors

Figures

References

Keywords

Metrics

measurements taken using manual methods, and the application works for all rivers in Kazakhstan.

Published in: 2021 IEEE International Conference on Smart Information Systems and Technologies (SIST)

Date of Conference: 28-30 April 2021 **INSPEC Accession Number:** 20730731

Date Added to IEEE Xplore: 29 June 2021 **DOI:** 10.1109/SIST50301.2021.9465902

► ISBN Information: **Publisher:** IEEE

Conference Location: Nur-Sultan, Kazakhstan





No metrics found for this document.

Metadata

 **Contents**

I. INTRODUCTION

After the launch of the Google Earth Engine (hereinafter GEE) platform, it became possible to use satellite images for scientific purposes, as well as apply different types of algorithms to add additional tools to the program.

- Authors 
- Figures 
- References 
- Keywords 

Metrics 

Usage 

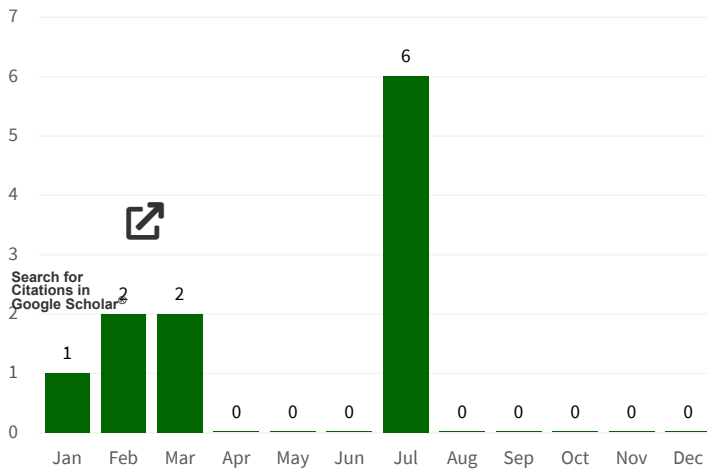
Select a Year

2022 

View as

Graph Table

Total usage since Jul 2021: **38**



IEEE Personal Account

CHANGE USERNAME/PASSWORD

Purchase Details

PAYMENT OPTIONS
VIEW PURCHASED DOCUMENTS

Profile Information

COMMUNICATIONS PREFERENCES
PROFESSION AND EDUCATION
TECHNICAL INTERESTS

Need Help?

US & CANADA: +1 800 678 4333
WORLDWIDE: +1 732 981 0060
CONTACT & SUPPORT

Follow



[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [IEEE Ethics Reporting](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2022 IEEE - All rights reserved.

IEEE Account

» Change Username/Password
» Update Address

Purchase Details

» Payment Options
» Order History
» View Purchased Documents

Profile Information

» Communications Preferences
» Profession and Education
» Technical Interests

Need Help?

» **US & Canada:** +1 800 678 4333
» **Worldwide:** +1 732 981 0060
» Contact & Support

[About IEEE Xplore](#) | [Contact Us](#) | [Help](#) | [Accessibility](#) | [Terms of Use](#) | [Nondiscrimination Policy](#) | [Sitemap](#) | [Privacy & Opting Out of Cookies](#)

A not-for-profit organization, IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity.

© Copyright 2022 IEEE - All rights reserved. Use of this web site signifies your agreement to the terms and conditions.