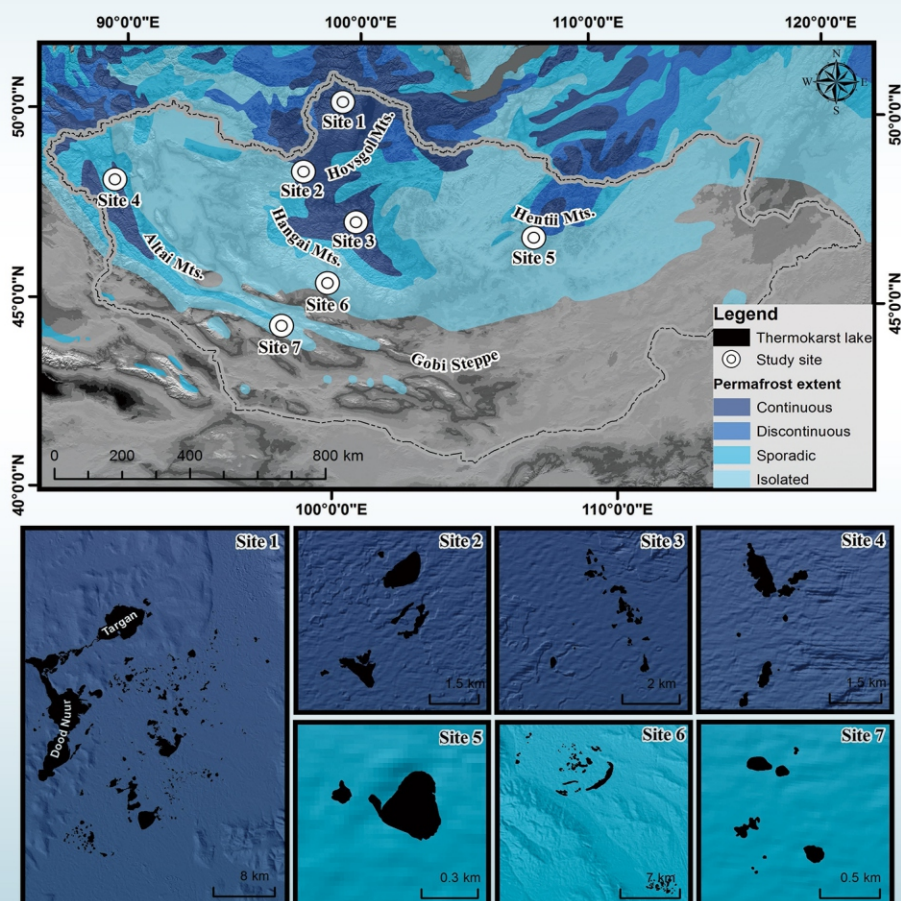


Advances in Remote Sensing



ISSN: 2169-267X



Journal Editorial Board

ISSN Print: 2169-267X

ISSN Online: 2169-2688

<http://www.scirp.org/journal/ars>

Editorial Board

Dr. Amr Abd-Elrahman	University of Florida, USA
Dr. Bruno Andò	The University of Catania, Italy
Dr. Raghavendra Angara	University of Maryland, USA
Dr. Ram Avtar	Japan Agency for Marine-Earth Science and Technology, Japan
Dr. Yong Bian	Yale University, USA
Dr. Padmanava Dash	Mississippi State University, USA
Dr. Arjan Durrezi	Indiana University-Purdue University Indianapolis, USA
Dr. Jeffrey J. Evans	Purdue University, USA
Prof. Kamaruzaman Jusoff	Universiti Putra Malaysia, Malaysia
Dr. Hyongki Lee	University of Houston, USA
Dr. Sandeep Negi	University of Utah, USA
Dr. Wenge Ni-Meister	The City University of New York-Hunter College, USA
Dr. Mui-How Phua	Universiti Malaysia Sabah, Malaysia
Dr. Sergey V. Samsonov	Natural Resources Canada, Canada
Dr. Preetha Thulasiraman	Naval Postgraduate School, USA
Dr. Tuong Thuy Vu	University of Nottingham, Malaysia
Dr. Zhuosen Wang	NASA Goddard Space Flight Center, USA
Dr. Byungyun Yang	University of South Florida, USA

Table of Contents

Volume 5 Number 4

December 2016

Thermokarst Lake Changes in the Southern Fringe of Siberian Permafrost Region in Mongolia Using Corona, Landsat, and ALOS Satellite Imagery from 1962 to 2007	
A. Saruulzaya, M. Ishikawa, Y. Jambaljav.....	215
An Appraisal of Land Use/Land Cover Change Scenario of Tummalapalle, Cuddapah Region, India—A Remote Sensing and GIS Perspective	
Y. Sreedhar, A. Nagaraju, G. M. Krishna.....	232
PALSAR-FBS L-HH Mode and Landsat-TM Data Fusion for Geological Mapping	
A. Bannari, A. El-Battay, A. Saquaque, A. Miri.....	246
Analysis of Land-Cover Changes and Anthropogenic Activities in Itigi Thicket, Tanzania	
J. S. Makero, J. J. Kashaigili.....	269
Object-Based vs. Pixel-Based Classification of Mangrove Forest Mapping in Vien An Dong Commune, Ngoc Hien District, Ca Mau Province Using VNREDSat-1 Images	
N. T. Q. Trang, L. Q. Toan, T. T. H. Ai, N. V. Giang, P. V. Hoa.....	284
Improvement of Bare Soil Semi-Empirical Radar Backscattering Models (Oh and Dubois) with SAR Multi-Spectral Satellite Data (X-, C- and L-Bands)	
R. Fieuzal, F. Baup.....	296
Assessment of Land Erosion and Sediment Accumulation Caused by Runoff after a Flash-Flooding Storm Using Topographic Profiles and Spectral Indices	
A. Bannari, G. Kadhem, A. El-Battay, N. A. Hameid, M. Rouai.....	315
Ecological Zones Degradation Analysis in Central Sudan during a Half Century Using Remote Sensing and GIS	
N. A. H. Mohamed, A. Bannari, H. M. Fadul, S. Zakieldeen.....	355

Advances in Remote Sensing (ARS)

Journal Information

SUBSCRIPTIONS

The *Advances in Remote Sensing* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2016 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

Copyright for individual papers of the journal:

Copyright © 2016 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

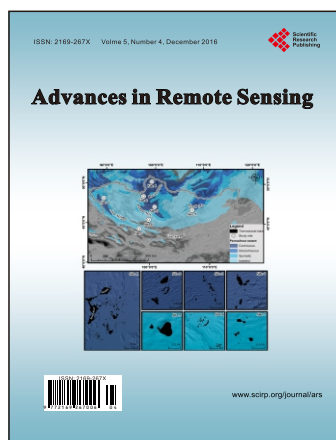
Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: ars@scirp.org



Advances in Remote Sensing

ISSN Print: 2169-267X

ISSN Online: 2169-2688

<http://www.scirp.org/journal/ars>

Advances in Remote Sensing (ARS) is an openly accessible journal published quarterly. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in all areas of remote sensing.

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous peer-review process. Accepted papers will immediately appear online followed by printed in hard copy. The areas covered by Advances in Remote Sensing (ARS) include but are not limited to the following fields:

- Advanced platforms and sensors
- Agriculture, ecosystems, land cover/change, hydrology, meteorological, social
- Biophysical and biogeochemical parameter modeling
- Change detection
- Data assimilation
- Data fusion
- Data receiving and engineering
- Data sharing and mining
- Economic surveys and cost-benefit analyses
- Environment management, dissemination, decision making
- Environmental monitoring
- Geospatial analysis of remote sensing data
- Global monitoring
- Hazard, ice/snow, fire, drought, fog, pollution
- Hyper-temporal remote sensing
- Image processing and analysis
- Image sequence analysis
- Image understanding and object based image analysis
- Land degradation & desertification
- Land-use and land-cover change assessment
- Land-use and land-cover change modeling
- Mobile mapping sensor and data analysis
- Multi-sensor approach
- Nonrenewable resources and geotechnical applications
- Other related principles of remote sensing
- Remote sensing of mining areas
- Remote sensing of wetlands
- Remote sensing planning, implementation
- Remote sensing program and experiment concepts
- Remote sensing science, theory
- Remote sensing strategic partnerships, policies, and measures
- Remote sensing validation and scaling problems
- Satellite instrument calibration requirements
- Satellite mission requirements and implementation
- Sensor characterisation
- Sensor intercalibration
- Sensor technology development
- Spacecraft and instrument navigation
- Time series analysis
- Unmanned aerial vehicle (UAV)
- Water quality modeling and benthic habitat classification
- Wetland mapping and ecology

We are also interested in: 1) Short reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book reviews—Comments and critiques.

Website and E-mail

<http://www.scirp.org/journal/ars>

E-mail: ars@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



Website: <http://www.scirp.org>
Subscription: sub@scirp.org
Advertisement: service@scirp.org