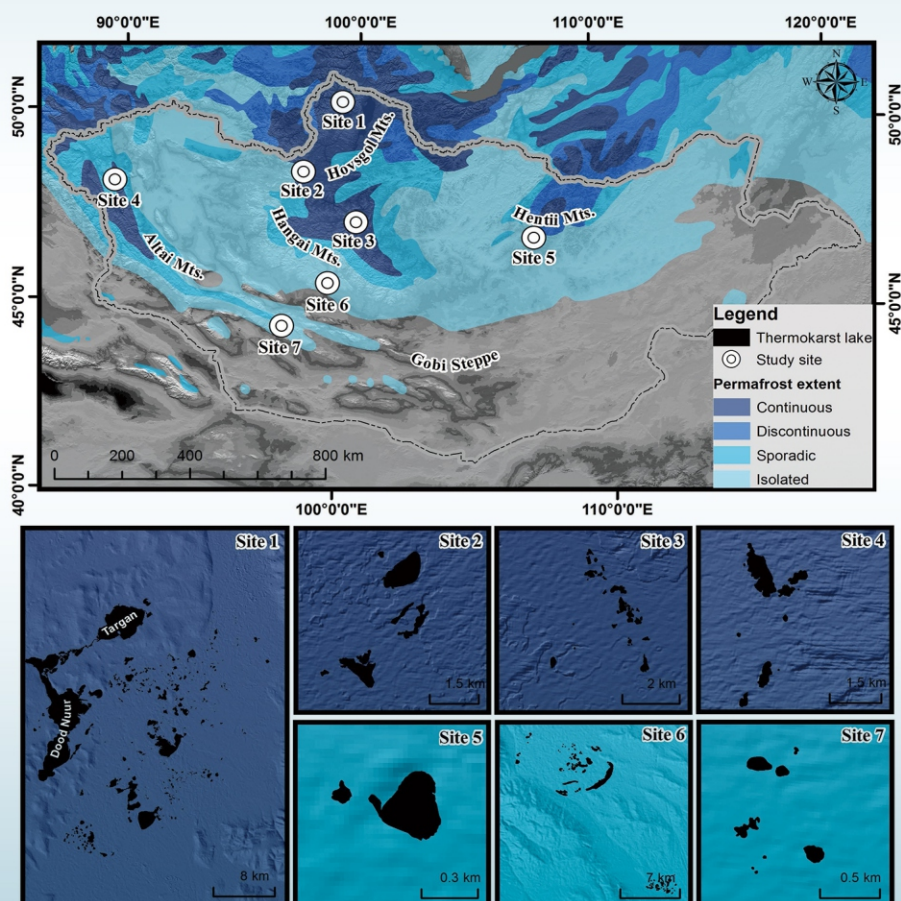


# Advances in Remote Sensing



ISSN: 2169-267X



# Journal Editorial Board

ISSN Print: 2169-267X

ISSN Online: 2169-2688

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

---

## Editorial Board

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

# Table of Contents

**Volume 5    Number 4**

**December 2016**

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

## Advances in Remote Sensing (ARS)

### Journal Information

#### SUBSCRIPTIONS

The *Advances in Remote Sensing* (Online at Scientific Research Publishing, [www.SciRP.org](http://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](mailto:sub@scirp.org)

#### SERVICES

##### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

##### **Reprints (minimum quantity 100 copies)**

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

E-mail: [sub@scirp.org](mailto: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](mailto: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](mailto:ars@scirp.org)