

3rd International Symposium on Earth Observation for Arid and Semi-Arid Environments (ISEO 2016)

IOP Conference Series: Earth and Environmental Science
Volume 74

Dushanbe, Tajikistan
19 – 21 September 2016

ISBN: 978-1-5108-4508-4
ISSN: 1755-1307

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2016) by the Institute of Physics
All rights reserved. The material featured in this book is subject to
IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

Table of contents

Volume 74

3rd International Symposium on Earth Observation for Arid and Semi-Arid Environments (ISEO2016)

19–21 September 2016, Dushanbe, Tajikistan

Accepted papers received: 4 July 2017

Published online: 21 July 2017

Preface

011001

OPEN ACCESS

[3rd International Symposium on Earth Observation for Arid and Semi-Arid Environments \(ISEO 2016\)](#)

011002

OPEN ACCESS

[Peer review statement](#)

Papers

012001

OPEN ACCESS

[Some characteristics of ozone concentrations and their linkages with meteorological factors in Kashgar, northwestern China](#)

Huiqin Wang, Mamtali Mamtimin and Feng Chen.....1

012002

OPEN ACCESS

[Glacier Changes in the West Kunlun Mountains Revealed by Landsat Data from 1994 to 2016](#)

J Zhang, B H Fu, L M Wang, A Maimaiti, Y X Ma and F Yan.....4

012003

OPEN ACCESS

[Development of urbanization in arid and semi arid regions based on the water resource carrying capacity -- a case study of Changji, Xinjiang](#)

H Xiao, L Zhang and Z Chai.....8

012004

OPEN ACCESS

[Monitoring lake level changes by altimetry in the arid region of Central Asia](#)

Y Zhao, J J Liao, G Z Shen and X L Zhang.....12

012005

OPEN ACCESS

[Construction of a Distributed-network Digital Watershed Management System with B/S Techniques](#)

W C Zhang, Y M Liu and J Fang.....18

012006

OPEN ACCESS

[Wide area lithologic mapping with ASTER thermal infrared data: Case studies for the regions in/around the Pamir Mountains and the Tarim basin](#)

Yoshiki Ninomiya and Bihong Fu.....27

012007

OPEN ACCESS

[Assessing soil erosion using USLE model and MODIS data in the Guangdong, China](#)

Feng Gao, Yunpeng Wang and Jingxue Yang.....31

012008

OPEN ACCESS

[Tempo-spatial changes of vegetation coverage using remote sensing in Altay, China](#)

X Y Chen, B H Fu and P L Shi.....35

012009

OPEN ACCESS

[Simulation and Evaluation of Low Impact Development of Urban Residential District Based on SWMM and GIS](#)

Tielan Huang, Yunpeng Wang and Jinlan Zhang.....40

012010

OPEN ACCESS

[Monitoring an air pollution episode in Shenzhen by combining MODIS satellite images and the HYSPLIT model](#)

Lili Li, Yihong Liu and Yunpeng Wang.....44

012011

OPEN ACCESS

[Quantitative analysis of land use and land cover changes from the multi-temporal remote sensing data in the Bosten Lake Basin, Chinese Tian Shan](#)

A Maimaiti, L M Wang, F Yan, J Zhang and Y X Ma.....48

012012

OPEN ACCESS

[The spatial distribution of remote sensed SO₂ in China and its relationship with energy consumption](#)

Chao Xu, Yunpeng Wang, Lili Li and Yihong Liu.....56

012013

OPEN ACCESS

[Analysis on dry-wet characteristics in the Zhujiang River Basin in recent 55 years](#)

Jizhong Qiu, Yunpeng Wang and Jie Xiao.....60

012014

OPEN ACCESS

[Application of remote sensing information related to mineralization alteration and new discovery in geological prospecting work](#)

F J Yao and B H Fu.....64

012015

OPEN ACCESS

[Assessing the accuracy of satellite-derived urban extent over major urban clusters in the WRF model](#)

Ronghan Xu, Zharong Pan and Hao Gao.....70

012016

OPEN ACCESS

[Rainy season change in Sanjiangyuan, China area based on the meteorological stations data](#)

Zhanqing Cai, Dailiang Peng, Jingyi Wen, Zhi Gong, Tiantian Wang, Yuekai Hu, Yuxi Wu and Junfeng Xu.....76

012017

OPEN ACCESS

[Research on trend of warm-humid climate in Central Asia](#)

Zhi Gong, Dailiang Peng, Jingyi Wen, Zhanqing Cai, Tiantian Wang, Yuekai Hu, Yaxin Ma and Junfeng Xu.....81

012018

OPEN ACCESS

[Analysis of Human Disturbance and Ecological Security Evolution in Oasis in Arid Area Based on LUCC: A Case Study of Oasis in the Northern Tianshan Mountain Slope Economic Zone](#)

W J Song, M H Chen, Q Zhang, S S Liu and J N Yang.....88

012019

OPEN ACCESS

[Extracting Vegetation Coverage in Dry-hot Valley Regions Based on Alternating Angle Minimum Algorithm](#)

M Y Yang, J Wang and Q Zhang.....95

012020

OPEN ACCESS

[Temporal and spatial characteristics of water resources in the Yeerqiang River Basin based on remote sensing](#)

Q Y Ran, L Y Bai, J Z Feng, Y M Yang, M Q Guo, H L Li, Q Zhang, P Zhang and D Cao.....102

012021

OPEN ACCESS

[Temporal and Spatial Variations of Vegetation Cover in Xinjiang from 2002 to 2015 and Their Response to Climate](#)

S S Liu, Q Zhang, X C Li, W J Song, J N Yang and X J Liu.....110

012022

OPEN ACCESS

[Glacier retreat of the Tian Shan and its impact on the urban growth and environment evaluated from satellite remote sensing data](#)

B H Fu, Q Guo, F Yan, J Zhang, P L Shi, M Ayinuer and G L Xue.....115