

ISSN 2320-0731

Journal of Indian Geomorphology

Volume 6, 2018



Indian Institute of Geomorphologists (IGI)
www.indiageomorph.org

Journal of Indian Geomorphology
Volume 6, 2018

ISSN 2320-0731

Editor

Sunando Bandyopadhyay

Associate Editor

Subhamita Chaudhuri

Editorial Advisory Board

N. Chandrasekar
Rajinder K. Ganjoo
Sunil Kumar De
Veena U. Joshi

Reviewers for the Issue

Abhijit Chakraborty
Amal Kar
Ramkrishna Maiti
Soumendu Chatterjee
Sunando Bandyopadhyay
Sunil Kumar De

Cover Design

Subrata Ghosh

Printed by

Unique Phototype
49, Guru Prosad Chowdhury Lane
Kolkata 700006

Published by

The Secretary General
Indian Institute of Geomorphologists
Department of Geography, Allahabad University
Allahabad 211002

CONTENTS

Presidential Address: Current Scenario of Research in Indian Geomorphology and its Future Rolee Kanchan	1
The Current Stable Phase of Ladakh Himalayan Glaciers and the Climate Change Effect: An Overview of Morphology and Dynamics of Drass Glaciers M.N. Koul	11
Application of Topographic Position Index for Classification of Landforms in Dudhatoli Region of Garhwal Himalaya, Uttarakhand Devi Dutt Chauniyal and Surajit Dutta	28
Morphometric Evaluation using Geospatial Technology in the Kunur River Basin of West Bengal, India Debasis Ghosh, Monali Banerjee, Mrinal Mandal, Surajit Prasad Singh and Sujay Bandyopadhyay	42
Delineation of Geomorphic Regions of the Pairi Basin, Chhattisgarh and Odisha Sk. Nasib Ahmed and Anusuiya Baghel	55
Application of GIScience to Assess the Actual and Potential Soil Loss of Panchanoi Basin, Darjeeling, West Bengal Subhadip Gupta and Subhamita Chaudhuri	60
Soil Erosion, Suspended Sediment Inflow-Outflow and its Impact on Channel Degradation and Aggradation in the Mora Dhansiri River Basin, Assam Rana Sarmah	73
Application of RUSLE-3D Model to Predict Soil Loss from a Watershed in Western Deccan, Maharashtra Veena. U. Joshi and Nilesh Suswara	91
Urban Geoforms: Concept and Significance in Anthropogeomorphology Anwasha Haldar and Lakshminarayan Satpati	108
Impact of Dams on River Discharge: A Study on the Damodar River, Jharkhand Sahidul Karim and Sunil Kumar De	116