Journal of Indian Geomorphology Volume 2, 2013 ISSN 2320-0731

Managing Editor Savindra Singh

Editor Sunando Bandyopadhyay

Associate Editors: Subhamita Chaudhuri

Editorial Advisory Board N. Chandrasekhara Rajinder K. Ganjoo Sunil Kumar De Veena U. Joshi

Reviewers for this issue
Amal Kar
Guruprasad Chattopadhyay
Koppella Narayana Prudhvi Raju
Nageshwar Prasad
Rajinder Kumar Ganjoo
Santanu K.Pattanayak
Subir Sarkar
Suresh Ramachandra Jog
Veena Uday Joshi

Cover Design Subrata Ghosh

Journal of **Indian Geomorphology**

Volume 2, 2013



Indian Institute of Geomorphologists (IGI)

CONTENTS

Harnessing Applied Geomorphology for Sustainable Environmental Management Brig. (Dr.) R.C. Pathak	1
Ensuring Sustainability of Fluvial Systems: A Review of Key Tools Dulal C. Goswami	4
Postmodernism in Geomorphological Research and Approach Zahid Husain	11
Palaeoclimatic Significance of Periglacial Landforms in the Himalaya and Geomorphological Indicators Suggested for Distinguishing Periglacial Deposits from Glacial Deposits Guru Prasad Chattopadhyay	16
Geomorphic Effectiveness of the August 2006 Flood in the Tapi River Pramodkumar S. Hire and Archana D. Patil	23
Bedload Characteristics of Lower Order Streams in Extremely High Rainfall Region: A Case Study of Um-U-Lah Watershed, Cherrapunji, Meghalaya H.J. Syiemlieh, Weko-ü Khutso, Andy Lyngdoh and P.S. Khanganpam	29
Channel Deranging and its Impact: A Study on Mayurakshi-Kuya Interfluve, Santal Pargana and Birbhum Districts, Jharkhand and West Bengal Sutapa Mukhopadhyay and Priyanka Das	37
Watershed Prioritisation with Reference to Drainage Characteristics and Land Use Land Cover Change for Sustainable Development of Mountain Regions: Parvati Basin, Himachal Pradesh Ram Nagesh Prasad and Padmini Pani	46
Estimation of Runoff from Impervious Surface using Multitemporal Remote Sensing Data: A Case Study of Ramnadi Catchment, Maharashtra Kopal Kumar and Anargha Dhorde	56
Thresholds for the Evolution of Mining Scars on Himalayan Slope at Darjiling, West Bengal Ramkrishna Maiti	70
Regional Scale Landslide Risk Assessment Using Fuzzy Set Approach: A Case Study on Dhalai District, Tripura Kapil Ghosh, Shreya Bandyapadhyay and Sunil Kumar De	82
Assessment of Spatiotemporal Distribution of Landslides in North Thane District, Maharashtra Sumant E. Autade, Sudhakar D. Pardeshi and Suchitra Pardeshi	91