

Journal of Geomatics
(A publication of the Indian Society of Geomatics)

Editorial Board

Chief Editor: Prof. Ajai

(Address for Correspondence: Space Applications Centre, ISRO, Ahmedabad - 380 015)
Phone: +91-79-26913305 (O), 91-02717-235441 (R), Email: drajai1953@gmail.com

Associate Editors:

R. P. Dubey Ahmedabad, Email: rpdebey@hotmail.com
Markand P. Oza SAC, Ahmedabad, Email: markand@sac.isro.gov.in

Members:

V. Balaji ICRISAT, Patancheru, Email: V.Balaji@cgiar.org
Mahesh Chandra NIC, New Delhi, Email: mchandra@nic.in
A.R. Dasgupta Ahmedabad, Email: arup@ieee.org
P.K. Garg IIT Roorkee, Email: gargpfce@iitr.ernet.in
A.K. Gosain Indian Institute of Technology, New Delhi, Email: gosain@civil.iitd.ernet.in
Ashok Kaushal Pune, Email: akaushal1960@yahoo.co.in
I.V. Murali Krishna Jawaharlal Nehru Technological University, Hyderabad, Email: ivm@ieee.org
V.N. Patkar Ex-Planner, MMRDA, Mumbai, Email: vnpatkar2004@yahoo.co.in
S.M. Ramasamy Bharathidasan University, Tiruchirapalli, Email: grucc@ruraluniv.ac.in
Aniruddha Roy Navayuga Engineering Co. Ltd., New Delhi, Email: aroy@navayuga.com
P.S. Roy Hyderabad, Email: psroy1952@yahoo.in
Milap Chand Sharma JNU, New Delhi, Email: milap@mail.jnu.ac.in
P. Venkatachalam CSRE, Indian Institute of Technology, Mumbai, Email: pvenk@csre.iitb.ac.in

Advisory Board

Paul J. Curran Vice-Chancellor, Bournemouth University, Poole, **UK**
V. Jayaraman Bengaluru, **India**
R. Krishnan Thiruvananthapuram, **India**
Sugata Mitra NIIT GIS Ltd, New Delhi, **India**
P. Nag Varanasi, **India**
M.P. Narayanan President, CSDMS, NOIDA, U.P., **India**
R.R. Navalgund ISRO H.Q., Bengaluru **India**
Y.S. Rajan ISRO H.Q., Bengaluru, **India**
R. Siva Kumar New Delhi, **India**
Josef Strobl Interfaculty Dept. of Geoinformatics, University of Salzburg, **Austria**

**Indian Society of Geomatics
Executive Council 2014 – 2017**

President	A.S. Kiran Kumar , Space Applications Centre, Ahmedabad-380015
Vice-President	A.S. Rajawat , Space Applications Centre, Ahmedabad-380015 Pramod K. Verma , MPCOST, Bhopal-462003
Secretary	N.S. Mehta , Ahmedabad-380015
Joint Secretary	R. Nagaraja , National Remote Sensing Centre, Hyderabad-500037
Treasurer	K.P. Bharucha , Space Applications Centre, Ahmedabad-380015
Members	K.L.N. Sastry , Space Applications Centre, Ahmedabad-380015 G. Parthasarathy , NGRI, Hyderabad-500007 Shakil Ahmed Romshoo , Kashmir University, Srinagar-190006 P.M. Udani , Inst.of S&T for Adv. Studies & Res., VVNagar- 388120 S. Palria , M.D.S. University, Ajmer-305009
Ex-Officio (Immediate Past President)	Shailesh Nayak , MoES, New Delhi – 110003

Secretary : (address for correspondence)

39, Basant Bahar-II, Bopal, Ahmedabad – 380058, India
Email : nsmehtha55@gmail.com or secretary@isgindia.org

Journal of Geomatics
(A publication of the Indian Society of Geomatics)

Vol. 9 No. 1

April 2015

Research articles

- | | | |
|----|--|----|
| 1 | A proposed weighted sum algorithm for assessing orthometric correction
Raaed Mohamed Kamel Hassouna | 1 |
| 2 | Open source GIS and cloud computing technology for the power distribution system
Prashant Persai and Sunil Kumar Katiyar | 10 |
| 3 | Feature extraction of hyperspectral imaging data using texture analysis
Rimjhim Bhatnagar Singh, S.S. Ray and A.C. Sharma | 19 |
| 4 | Landslide hazard zonation in Ada Berga district, central Ethiopia – A GIS based statistical approach
Fikre Girma, Tarun Kumar Raghuvanshi, Tenalem Ayenew and Trufat Hailemariam | 25 |
| 5 | Remote sensing and GIS based modeling for wind erosion assessment in parts of Indian Thar desert
Koyel Sur, Rimjhim B. Singh, A.S. Arya, Prakash Chauhan and Ajai | 39 |
| 6 | Assessment of SAR polarimetric decompositions for land cover studies
Bindi P. Shastri, R.L. Mehta, S. Mohan and Anjana Vyas | 48 |
| 7 | Sensitivity of pixel-based classifiers to training sample size in case of high resolution satellite imagery
M.L. Doma, M.S. Gooma and R.A. Amer | 53 |
| 8 | Area estimation of paddy stubble burning in ten major paddy growing districts of Haryana, India using geo-informatics
Manoj Yadav, R. Prawasi, Satyawani, Pooja Rana, Kiran Kumari, Shyam Lal, Karamdeep, Siddharth and R.S. Hooda | 59 |
| 9 | A linear regression relation between photogrammetric absolute orientation accuracy and ground control distribution
Ismat M. Elhassan | 66 |
| 10 | Urban growth analysis using Shannon entropy – A case study of Rajkot city (Gujarat)
Shaily Raju Gandhi, Shashikant A. Sharma and Anjana Vyas | 72 |
| 11 | Estimation of phenological parameters using remote sensing derived high temporal LAI data: A case study of forest region in central India
S. Punalekar, P.K. Gupta, M.P. Oza, R.P. Singh and A. Sonakia | 77 |

12	Multi-criteria evaluation in identification of potential ecotourism sites in Hawassa town and its surroundings, Ethiopia K.V. Suryabhadgavan, Hailegebreal Tamirat and M. Balakrishnan	86
13	Comparing modelled Arctic sea ice trend with remotely sensed estimates D. Ram Rajak, Neeraj Agarwal, P. Jayaprasad, R.K. Kamaljit Singh, Sandip R. Oza and Rashmi Sharma	93
14	Multitemporal remote sensing analysis of land cover features evolution in central Ethiopia region Clement Nyamekye, Zereyohannes Girma and Amos John Kwamena	99
15	An interoperable framework for metadata catalogue repository to access groundwater datasets using open source technology Hariom Singh and R.D. Garg	107
16	Accuracy Assessment Study of GLONASS-based Precise Point Positioning Ashraf Farah	115
17	Flood hazard zonation based on basin morphometry using remote sensing and GIS techniques: A case study of Tungabhadra and Hagari river subcatchments in North-East Karnataka, India D.C. Lingadevaru, Govindaraju and P.D. Jayakumar	122
18	Geoinformatics technique in mapping of lithology and geomorphological landforms in precambrian rocks of Kollegal Shear Zone (KSZ), southern Karnataka, India H.T. Basavarajappa, S. Dinakar, M.V. Satish, D. Nagesh and M.C. Manjunatha	129
	Guidelines for "National Geomatics Award for Excellence"	v
	National Geomatics Award	vii
	Fellows and Patron Members	x
	Instructions for Authors	xi
	Journal of Geomatics: Advertisement Rates	xiii
	Indian Society of Geomatics Membership Application Form	xiv