


Format for Faculty Details for IGNOU Web site

	Name		Mahendra Singh Nathawat
	Designation		Professor
	Contact Address		Room no.2,Block 15, Section J School of Science Indira Gandhi National Open University Maidan Garhi New Delhi-110068
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EDUCATIONAL QUALIFICATIONS			
Degree	Year	Institute/University	
Ph.D. “ Geomorphological Aspects of the Processes of Desertification in Rajasthan: Monitoring & Dynamics with Remote Sensing ”	(1992-1996)	University of Rajasthan, Jaipur	
P.G. Diploma “ Population Ecology ”	(1991-1992)	University of Rajasthan, Jaipur	
P.G. Diploma “ Remote Sensing Techniques in Geology & Geomorphology ”	(1986-1987)	Indian Institute of Remote Sensing, Dept. of Space. Dehradun	
M.Phil. Geography	(1980-1982)	University of Rajasthan, Jaipur	
M.A. Geography	(1978-1980)	University of Rajasthan, Jaipur	
B.A. (Hons.) Geography	(1975-1978)	University of Rajasthan, Jaipur	
CAREER PROFILE			
Teaching Experiences:			
<ul style="list-style-type: none"> • TEACHING: 21 (TWENTY ONE) YEARS • RESEARCH: 37 (THIRTY SEVEN) YEARS 			
AREA OF INTEREST/SPECIALIZATION			
Desertification, Remote Sensing and GIS, Natural Resources Management, Physical Geography,Regional & Urban Planning, Environmental Geomorphology, Climate Change and Disaster Management			
ROLE AND RESPONSIBILITIES AT IGNOU			
<ul style="list-style-type: none"> • Professor of Geography (July 2011 till date) • Former Director SOS (July 2016-July 19) • Former Director Research (Aug 2014-Jan 2016) 			

ROLE AND RESPONSIBILITIES PRIOR TO JOINING IGNOU:

- Professor & Head ,Department of Remote Sensing, Birla Institute of Technology (BIT), Mesra, Ranchi (April 2011- July 2011)
- Project Director, State NRDMS Centre, Dept. of Science & Technology, Govt. of Haryana (1997-2001)
- Senior Scientific Officer & In charge, Dept. of Remote Sensing, B.M. Birla Science & Technology Centre, Jaipur (1993-1998)
- Scientist/ Lecturer, Dept. of Remote Sensing, B.M. Birla Science & Technology Centre, Jaipur (1985-1993)
- Research Fellow, South Asia Study Centre, University of Rajasthan (1982-1984)

RESEARCH GUIDANCE:

Supervision of	Year of completion	Name	Ph. D. Topic
Ph. D.	2019	Ms. Sreeja S. Nair	Climate Change, Draught Risks and Mitigation Strategies: Study of Bundelkhand Region, India
Ph. D.	2017	Suman Sinha	Mutli-sensor SAR-optical synergic modeling in retrieving forest parameters for wildlife habitat management
Ph. D.	2016	Arunima Dasgupta	Desertification vulnerability risk assessment and prediction model using fuzzy algorithm
Ph. D.	2015	Saji Baby	Depicting Coastal Morphologic Evolution & Management for Coast in Crisis in the state of Kuwait.
Ph. D.	2013	Shruti Kanga	Forest Fire Susceptibility, Risk Modeling and Management: A Geoinformatics Approach
Ph. D.	2013	Praveen Kr. Rai	GIS based assessment of population dynamics and health management plan in Varanasi Dist. U.P.
Ph. D.	2013	Swagata Ghosh	Assessment of Glacier Dynamics in parts of great Himalayan Range, Ladakh, India, using Geoinformatics.
Ph. D.	2013	B.K. Mishra	Strategic Planning for Sustainable water Resource Management – A Geospatial Model for Implementation at Watershed Level
Ph. D.	2013	Dr. Sunil LondheLalsahib	Integrated approach of Remote Sensing and GIS in characterization and evaluation of land resources in Subarnarekha Sub Catchment, Jharkhand for agricultural planning
Ph. D.	2011	Dr. V.S. Rathore	Assessment of Water Bearing Potential of palacochannel of Mendha River System (Rajasthan) using Remote Sensing & GIS Technique
Ph. D.	2011	Dr. Kirti Avishek	Ecosystem Management & Audit through Geospatial Technology
Ph. D.	2011	Dr. N.R. Mondal	Alternative sustainable livelihood for farmers synthesizing natural resources self-help and appropriate technology through responsive administrative

			strategies
Ph. D.	2010	Dr. B. Sailaja	Decision support System (DSS) for rice management using Geographical Information System (GIS)
Ph. D.	2009	Dr. H.S. Gupta	Spatial – Temporal Assessment of Forest Cover in Ranchi District and Forest Management Issues
Ph. D.	2005	Dr. Ajay Shrivastava	Effect of Subsurface Features on the Geomorphology of Gangatic Plain: An Integrated Approach Using Remote Sensing & Geographic Information System
Ph. D.	Pursuing	Mr. Amarjeet	Regional Disparities in the Level of Socio-Economic Development of Bundelkhand : An Inter-State Analysis
Ph. D.	Pursuing	Ms. Shuchi	Food Security in India :An Inter-State Analysis
Ph. D.	Pursuing	Ms. Shuchi	Food Security in India :An Inter-State Analysis
MPhil	Pursuing	Ghanshyam Singh Yadav	Assessment of Water Poverty in Bundelkhand Region: An Inter-District Analysis
MPhil	Pursuing	Mahendra Yadav	An Assessment of Change in Common Property Resources and its Impacts on Socio-Economic Condition in Sonbhadra District, UP
MPhil	Pursuing	Alpana Kumari	Health Care Facilities and Health Status in Bihar: Geographical Analysis
MPhil	Pursuing	Mr. Nitish Kumar Singh	Assessment of Urban Expansion and Land Use Dynamics of Varanasi City

Books/Monographs (Authored/Edited)/ Book Chapter/ Lecture Notes :

a) Books:

Rai P.K. and **Nathawat M.S.** (2017). Geoinformatics in Health Facility Analysis. **Springer International Publishing**. ISBN: 978-3-319-44624-0.

Shruti Kanga, Sharma, L.K. and **Nathawat M.S.** (2015). Himalayan Forest Fires Risk Management: A Geospatial Approach. **Lambert Academic, Publishing**. ISSN/ISBN No. 97838465180007.

Sinha S, **Nathawat M.S.** and Sharma L.K. (2014). Geospatial Approach for Managing Relocation and Distribution of Tigers. **Lambert Academic Publishing**. ISBN : 978-3-659-52104

Rai P.K. and **Nathawat M.S.** (2013). Remote Sensing & GIS in Glacier Mapping, **Lambert Academic Publishing, Germany**, ISBN: 978-3-659-43454-9. **Lambert Academic Publishing**. ISBN: 978-3-659-43454-9-1

Nathawat M.S. and Pandey A.C. (2008). Geoinformatics for Decentralized Planning and Governance, **Rawat Publication**, ISBN 81-316-0117-X.

b) Chapters in Books:

- Nathawat M.S.**, Sinha S., Santra, A., Mitra, S.S., Jeganathan C., Sharma L.K., Das, A.K., & Mohan S. (2017). *Multi-frequency SAR capabilities for forest biomass and carbon inventory for REDD monitoring*. 38th Asian Conference on Remote Sensing- Space Applications: Touching Human Lives (ACRS-2017), Asian Association on Remote Sensing, Asian Institute of Technology, Thailand. ISBN: 978-1-5108-5684-4.
- Nathawat M.S.** (2016). *Land use, land capability and land evaluation*, ICSSR Research Surveys and Explorations – ECONOMIC GEOGRAPHY, Vol: 1 – Land, Water and Agriculture, Oxford University Press, Delhi: 35-61.
- Nathawat M.S.** Sinha S., & Jeganathan, C. Naithani, S. (2014). *Uses of Multi Polarized ALOS PALSAR Data for Biomass Assessment of Tropical Forests: A step towards REDD*. Remote Sensing and GIS in Environmental Resource Management. Aura Books India Pvt. Ltd: 183-192. ISBN: 978-81-929248-0-9.
- Nathawat M.S.**, Sinha S., Sharma L.K., Kumar P., Kanga S. & Pandey P.C. Mukherjee, S., Gupta, M. & Srivastava, P.K. (2014). *Remote estimation of land surface temperature for different LULC features of a moist deciduous tropical forest region/ Remote Sensing Techniques in Earth Sciences*. Springer, Springer International Publishing, Switzerland: 57-68, Doi: 10.1007/9783-319-05906-8_4.
- Nathawat M.S.**, Sharma L.K. & Sinha S., Sharma H.S., Padmaja S. & Sharma G.(2013). *Tiger habitat suitability and potential relationship with forest biomass in Sariska Wildlife Reserve, India: A geospatial perspective /Climate Change, Bio-Diversity and Green Economy*. Concept Publishing Company Pvt. Ltd., New Delhi, India: 137-143.
- Nathawat M.S.**, Pandey P.C., Kanga S., Sinha S., and Sharma L.K. (2012). *Spectral modelling for green moist vegetation demarcation using geospatial techniques*. In: *Land use/Land cover section of 8 Band Research Challenge World View-2 Imagery, Digital Globe*. Inc. Limited, Available online: <http://dgl.us.neolane.net/res/img/2fb18203e87481fb04c52d74f57ccec3.pdf> (article in magazine).
- Nathawat M.S.** and Avishek K. (2007). *Landscape Ecological assessment using Hemeroby model* Ed. H.S. Sharma, P.R. Binda. Modeling in resource management and environment through geomatics. Concept publ., New Delhi : 113-123.
- Nathawat M.S.** (2007). *Environmental modeling using geo-informatics*. Ed. Sharma H.S, Binda P.R. Modeling in resource management and environment through geomatics., Concept publ. : 124-138.
- Krishna A.P., Kumar N. and **Nathawat M.S.** (2006). *Natural Hazard Assessment through Remote Sensing and GIS – A Case Study from Sikkim State, India*In: Disaster Management (Eds. N.C. Mahanti et al), Publ. Narosa Publishers, Delhi : 73-83.
- Nathawat M.S.** (1993). *Combating Desertification through irrigation development - in studies in arid land management*. Ed. Dr. T.S. Chouhan and Dr. K.N. Joshi: 141-146.
- Nathawat M.S.** and Sharma H.S. (1992). *Land Transformation and Environmental degradation in Jaipur urban complex*. In: Environment and Development-Views from the East and the West Eds. Dr. Mukherjee, A. and Agnihotri, V.K., Publ. Concept, Delhi: 91-105.
- Nathawat M.S.** (1991). *Remote Sensing tool for assessing environmental effects present state, changes and ecological significance of reservoir system in semi arid region*. Indian Geomorphology Ed. H.S. Sharma : 313-319.
- Nathawat M.S.** (1991). *Application of Remote Sensing data for Geomorphology and Environmental Conservation studies*. Indian Geomorphology Ed. H.S. Sharma: 308-312.
- Nathawat M.S.** (1989). *Remote Sensing capabilities for monitoring desertification - in land and water management: Dry land experience*. Ed. H.S. Sharma & A.K. Sinha: 154-159.

Papers in Refereed/Peer reviewed Journals:

(1) Publications in International Journals:

- Sinha S., Santra A., Sharma L.K., Jeganathan C., **Nathawat M.S.**, Das A.K. Mohan S. & Mitra S.,S. (2019). Accounting tropical forest carbon stock with synergistic use of space-borne ALOS PALSAR and COSMO-SkyMed SAR sensors. **Tropical Ecology**.
- Sinha S., Santra A., Sharma L.K., Jeganathan C., **Nathawat M.S.**, Das A.K. & Mohan S. (2018). Multi-polarized Radarsat-2 satellite sensor in assessing forest vigor from above ground biomass. **Journal of Forestry Research**. Vol. 29, No. 4, pp.1139-1145.
- Rai P.K., Mishra V.N. Singh S. Prasad R. and **Nathawat M.S.** (2017). Remote sensing based study for evaluating the changes in glacial area: A case study from Himachal Pradesh, India. **Earth System and Environment (Springer)** Vol. 1 No. 1. pp.13, ISSN: 2509-9434.
- Sinha S., Santra A., Sharma L.K., Jeganathan C., **Nathawat M.S.**, Das A.K. and Mohan S. (2017). Forest vigor assessment in terms of above ground biomass using multi-polarized Radarsat-2 satellite sensor. **Journal of Forestry Research**.
- Sinha S., Jeganathan C., Sharma L.K., **Nathawat M.S.**, Das, A.K. & Mohan S. (2016). Developing Synergy Regression Models with space-borne ALOS PALSAR and Landsat TM sensors for retrieving tropical forest biomass. **Journal of Earth System Science**. Vol. 125, No. 4, pp. 725-735.
- Nathawat M.S.**, Forest Fire Simulation Modeling using Remote Sensing & GIS: A Case Study of Taradevi Forest (H.P.), India. (2016). **Journal of Sciences and Ecology**. ISSN No. 1674- 764 x.
- Sinha S., Sharma L.K., Jeganathan C., and **Nathawat, M.S.** (2015). Efficacy of InSAR coherence in tropical forest remote sensing in context of REDD. **International Journal of Advancement in Remote Sensing, GIS & Geography**. Vol. 3, No. 1a, pp.38-46.
- Suman Sinha, Laxmi Kant Sharma and **Nathawat M.S.** (2015) Improved Land use/Land-cover classification of semi-arid deciduous forest landscape using thermal remote sensing *,Egyptian Journal of Remote Sensing and Space Science* 18(2) · October 2015 DOI: 10.1016/j.ejrs.2015.09.005
- Prem Chandra Pandey, Pavan Kumar, Vandana Tomar and **Nathawat M.S.** (2015) Modelling spatial variation of fluoride pollutant using geospatial approach in the surrounding environment of an aluminium industries, *Environmental Earth Sciences* 74(12) · June 2015 DOI: 10.1007/s12665-015-4563-8
- Suman sinha, Jeganathan Chockalingam ,Laxmi Kant Sharma and **Nathawat M.S.** (2015), A review of radar remote sensing for biomass estimation in *International journal of Environmental Science and Technology*, May 2015 DOI: 10.1007/s13762-015-0750-0
- R. Nagarjuna Kumar, Virendra Rathore, K. Srinivas Reddy, **Mahendra Singh Nathawat**(2015) Simulation of grape crop future water requirement using CROPWAT model in semi- arid region, *International Journal of Applied Engineering Research* 10(3):5867-5880 · January 2015
- Saji Baby, **Mahendra S. Nathawat**, Mohammad A. Al-Sarawi (2014), Major Impacts from Anthropogenic Activities on Landscape Carrying Capacity of Kuwaiti Coast, *Polish Journal of Environmental Studies* , Vol.23,No.1(2014),7-17
- Singh S.K., Pandey A.C., Rathore V.S. and **Nathawat M.S.** (2014).Evaluating factors responsible for contrastic signature of wasteland development in northern & southern Ganga plains (Bihar State, India) with focus on water logging *.Arabian Journal of Geosciences*, Springer Publication. DOI 10.1007/s12517-013-1094-

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- Ghosh S., Pandey A.C. and **Nathawat M.S.** (2014). Mapping of debris-covered glaciers in parts of the Greater Himalaya Range, Ladakh, western Himalaya using Remote Sensing and GIS. **Journal of Applied Remote Sensing**.(Accepted).
- Ghosh S., Pandey A.C. and **Nathawat M.S.**, Bahuguna I.M. and Ajai (2014). Contrasting signals of glacier changes in Zaskar valley, Jammu & Kashmir, India using Remote Sensing and GIS. **Journal of the Indian Society of Remote Sensing, Springer Publication.** (in press).
- Kanga S., Sharma,L.K. Pandey P.C. and **Nathawat M.S.**, (2014). GIS Modelling Approach for Forest Fire Risk Assessment and Management. **International Journal of Advancement in Remote Sensing, GIS and Geography**, 2, 30-44. ISSN No. 2321-8355.
- Dasgupta, Arunima, Sastry, K.L.N., Dhinwa, P.S., **Nathawat, M.S.**, and Rathore, V.S, (2013), Identifying Desertification Risk Areas using Fuzzy Membership and Geospatial Technique - A Case Study, Kota District, Rajasthan, **J. Earth Syst. Sci.** 122, No. 4, August 2013, pp. 1107–1124
- Pandey,P.C., Rani, M., Srivastava, P.K., Sharma, L.K., and **Nathawat, M.S.**, (2013). “Land Degradation Severity Assessment with Sand Encroachment in Ecologically Fragile Arid Environment: a Geospatial Perspective” **QScience Connect**. Ms. No.CONNCT-D-13-00050R1.Accepted for publication.
- Dasgupta, Arunima, Sastry, K.L.N., Dhinwa, P.S., **Nathawat, M.S.** and Rathore, V.S, (2013), Identifying Desertification Risk Areas using Fuzzy Membership and Geospatial Technique - A Case Study, Kota District, Rajasthan, **Journal of Earth System Science, Springer.**
- Kumar, P., Sharma, L. K., Pandey, P.C., Sinha, S., and **Nathawat, M.S.** 2013. Geospatial strategy for tropical Forest-Wildlife Reserve biomass estimation. *IEEEJournalof Selected Topics in Applied Earth Observations and Remote Sensing*, Vol. 6, NO. 2, pp. 917-923.
- Tirkey Anamika Shalini, Pandey A.C., **Nathawat M.S.**2013, Use of Satellite Data, GIS and RUSLE for Estimation of Average Annual Soil Loss in Daltonganj Watershed of Jharkhand (India) **Journal of Remote Sensing Technology**, Vol. 1 Iss. 1, PP. 20-30
- Sharma L.K., **Nathawat M.S.**, Sinha S. (2013) Top-down and bottom-up inventory approach for above ground forest biomass and carbon monitoring in REDD framework using multi-resolution satellite data. **Environ Monit Assess.** 2013 Oct;185 (10):8621-37. doi: 10.1007/s10661-013-3199-y. Epub 2013 Apr 20.
- Kumar Pavan, Sharma L.K, Pandey P. C, Sinha S, **Nathawat M.S.** (2013) Geospatial Strategy for Tropical Forest-Wildlife Reserve Biomass Estimation **IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing.** 01/2013; DOI:10.1109/JSTARS.2012.222112
- Sinha S. Sharma L.K., **Nathawat M.S.**, (2013) Integrated Geospatial Techniques for Land-use/Land-cover and Forest Mapping of Deciduous Munger Forests (India) **Universal Journal of Environmental Research and Technology** 01/2013;
- Dasgupta, Arunima, Sastry, K.L.N., Dhinwa, P.S., Pathan, S.K. and **Nathawat, M.S.**, 2012; Fuzzy logic model for desertification vulnerability risk assessment – A case study, district Bellary, Karnataka, **Journal of Geomatics**, 6 (2), 76 - 84.
- Rai, P.K., Nathawat, M.S., Onagh, M., Singh, S.B. (2012), Application of Multiple Linear Regression Model through GIS and Remote Sensing for Malaria Mapping in Varanasi District, INDIA. **Health Science Journal**

Peer Review.

- Shekhar Shashank, Pandey. A.C, **Nathawat.M.S**, 2012,Evaluation of fluoride contamination in groundwater sources in hard rock terrain in Garhwa district, Jharkhand, India ,**International Journal Of Environmental Sciences** Volume 3, No 3, ISSN 0976 – 4402
- Tirkey Anamika, Shalini, Pandey A.C. , **Nathawat M.S.**,2012 Groundwater Level and Rainfall Variability Trend Analysis using GIS in parts of Jharkhand state (India) for Sustainable Management of Water Resources, **International Research Journal of Environment Sciences**, ISSN 2319–1414,Vol. 1(4), 24-31,
- Rai, P.K., **Nathawat M.S.**, (2012), Glacier Retreat in Doda Valley, Jammu and Kashmir, India.**Question Geographicae**, Polland. (Accepted for publication)
- A.C.Pandey, SwagataGhosh and **M.S.Nathawat** (2011) Evaluating patterns of temporal glacier changes in Greater Himalayan Range, Jammu & Kashmir, India. **Geocarto International**, 26 (4), 321-338.
- DOI: 10.1080/10106049.2011.554611.
- Baby S. and **Nathawat M. S.**, (2011)“Formulating Coastal Management Strategies (CMS) for reserving the Endangered Coastal Morphological Landscape (CML) in „The State of Kuwait“, from Anthropogenic Activities using SWOT,” **International Journal of Oceans and Oceanography**, vol. 5, no. 1, pp. 85-109.
- Pandey P.C., Sharma L.K., and **Nathawat M.S.** (2011).Geospatial strategy for sustainable management of municipal solid waste for growing urban environment. **Environmental Monitoring And Assessment**, Springer, Onlinefirst:10th June 2011.DOI 10.1007/s10661-011-2127-2.
- Hazra, M., Avishek, K., Pathak, G., **Nathawat, M.S.**, (2011), Water Stress Assessment in Jharkhand State using Soil Data and GIS. **Journal of applied Sciences and Environmental Management**,March, 2011.Vol. 15 (1), 63-67.
- Rai, P.K., **Nathawat, M.S.**, Mishra, A. and Onagh, M.(2011), Geospatial Approach for Health Care Facilities Analysis: A Case Study.**Public Health and Human Behavior**,Academy Science Journal(*in Press and eproof Received*).
- Sharma L.K., Pandey P.C. and **Nathawat M.S.** (2011). Assessment of Land Consumption Rate with Urban Dynamics Change using Geospatial Techniques, **Journal of Land Use Science**. Taylor & Francis. *iFirst*: 24th February, 1-14.DOI: 10.1080/1747423X.2010.537790
- Rai, P.K., **Nathawat, M.S.**, Mishra, A., Singh, S.B. and Onagh, M. (2011). Role of GIS and GPS in VBD mapping: A Case Study. **Journal of GIS Trends**. Academy Science Journals, North America, 2(1):20-27. <http://www.asiencejournal.net/asj/index.php/GIST/article/view/298>
- LondheS. and **Nathawat M. S.** (2011) Erosion susceptibility zoning and prioritization of mini-watersheds using Geomatics approach. **International Journal of Geomatics and Geosciences**. Vol. 1 (3): 511528.
- Kanga S., Sharma L.K.,Pandey P.C., **Nathawat M.S.**, and Sinha S. (2011). Forest Fire Susceptibility Mapping with GIS Modelling. **International Journal of Earth Science and Engineering**.Spl. Issue on Remote Sensing and GIS. **04(3), 80-87**.
- Sinha S., Sharma L.K Pandey P.C., **Nathawat M.S.** and Kanga S. (2011). Assessing Human Intrusion on Tiger Habitat and Conservation using Integrated Geospatial Techniques. **International Journal of Earth Science and Engineering**.Spl. Issue on Remote Sensing and GIS. **04(3), 39-45**.
- Sharma L.K., Kanga S., **Nathawat M.S.**,Sinha S. and Pandey P.C. (2011). Fuzzy AHP for Forest Fire Risk

Kanga S., Sharma L.K., Pandey P.C., **Nathawat M.S.** and Sinha S. (2011). Geospatial Approach For Allocation Of Potential Tourism Gradient Sites In A Part Of Shimla District In Himachal Pradesh, India. **Journal of GIS Trends**. Academy Science Journals, North America, 2(1):1-6. Available at:

<http://www.asiencejournal.net/asj/index.php/GIST/article/view/148>

Singh S. K., Pandey A.C. and **Nathawat M.S.** (2011) Rainfall Variability and Spatio Temporal Dynamics of Flood Inundation during the 2008 Kosi Flood in Bihar State, India. **Asian Journal of Earth Sciences**. 4(1):9-19 DOI:10.3923/ajes.2011.9.19

Sinha S., Sharma L.K. and **Nathawat M.S.** (2011). Retrieving Tiger Habitat: Conserving Wildlife Geospatially. **Applied Remote Sensing Journal**. North America, 2(1): 1-5. Available at:

<http://www.asiencejournal.net/asj/index.php/ARS/article/view/137>

Nathawat M.S., Rathore V.S., Pandey A.C., Singh S. K. and Ravishankar G.,(2010) Monitoring & analysis of wastelands and its dynamics using multi-resolution and temporal satellite data in part of Indian state of Bihar,**International journal of Geomatics and Geosciences**, 1 (3):297-307.

Rathore, V.S., **Nathawat, M.S.** and Champatiray, P.K. (2010).Palaeochannel detection and aquifer performance assessment in Mendha river catchment, Western India,**Journal of Hydrology**, Vol. 395 (3-4): 216-225.DOI: 10.1016/j.jhydrol.2010.10.026

Londhe S. and **Nathawat M. S.** (2010)Large-scale soil mapping techniques for granitic terrain using high resolution satellite data. **Trends in Soil & Plant Sciences Journal**, 1(1):19-31.

Kumar Pavan, Rani Meenu, Pandey P.C., Majumdar Arnab and **Nathawat M.S.** (2010), Monitoring of Deforestation and Forest Degradation Using Remote Sensing and GIS: A Case Study of Ranchi in Jharkhand (India), **Report and Opinion** (ISSN: 1553-9873), **Science Publication**, 2(4); pp. 14-20. http://www.sciencepub.net/report/report0204/03_2578_report0204_14_20.pdf

Singh S. K., Pandey A.C. and **Nathawat M.S.** (2010). Waterlogging and flood hazards vulnerability and risk assessment in Indo- Gangetic plain, **Natural Hazards**, 55: 273-289.

Pandey, A.C., Singh S. K. and **Nathawat, M.S.** (2010).Analyzing the impact of anthropogenic activities on waterlogging dynamics in Indo-Gangetic plains, Northern Bihar, India.**International Journal of Remote Sensing**(Article in press)

Nathawat, M.S., Rathore, V.S. and Sarkar, Amrita, (2009), Innovative approach towards creating maps for urban information system a study for Patna city in India. **Abacus**, vol. 4 (2): 53-60

Gupta H.S. and **Nathawat M.S.** (2009). Elephant Movement in Karra C.D. Block-A Spatio-Temporal Analysis **International Journal on Elephant GAJAH (IUCN)** vol. 31: 21-24.

Sailaja B., Rao P.S., **Nathawat M.S.** and Rao N.H. (2009). A Combination Method for Regional Rice Area Estimation using Remote Sensing. **Asian Journal of Geoinformatics**, Vol.9 (3): 1-9.

Sailaja B., Voleti S.R., **Nathawat M.S.** and Rao N.H. (2009). Validation of Oryza 2000 Model with Irrigated Low Land Field Experiment of Rice. **International Journal of Tropical Agriculture**, Vol.27 (1-2): 229-233.

Avishek K., Pathak G., **Nathawat M.S.**, Jha U. and Kumari N. (2009). Water Quality Assessment of Majhiaon block of Garwa district in Jharkhand with special focus on fluoride analysis,**Environmental Monitoring and**

Assessment. www.springerlink.com/index/h021j16u55425885.pdf

Avishek K. and **Nathawat M.S.** (2009). Identifying the Driving Forces of Landscape Change using Geoinformatics A Case study for Kanke, Namkum & Ratu Blocks of Ranchi District, India. **International Journal of Earth Sciences Engineering**, Vol.2 (2): 112-119.

Mandal N., **Nathawat M.S.** and Khare A. (2008). Community Participation in the Construction of New School Buildings under the District Primary Education Programme in India, **Abacus**, Vol. 3 (2): 63-68.

Rathore, V.S., **Nathawat, M.S.** and Champatiray, P.K. (2008). Influence of neotectonic activity on ground water salinity and playa development in the Mendha river catchment, western India. **International Journal of Remote Sensing**, Vol 29 (13): 3975-3986.

Saini R.R., **Nathawat M.S.**, Punia M. and Raj S. (1989). Mapping Sand Encroachment and Changes in Mendha river course with Landsat. **I.T.C. Journal**, Vol. 2: 112-114.

(2) Publications in National Journals:

Sinha S., Santra A., Sharma L.K., Jeganathan C., **Nathawat M.S.**, Das A.K. Mohan S. & Mitra, S.S. (2019). Regression-Based Integrated Bi-sensor SAR Data Model to Estimate Forest Carbon Stock. **Journal of the Indian Society of Remote Sensing**.

Nair S. Sreeja, **Nathawat M.S.** and Gupta Anil K. (2013). Indices for Draught Hazard Mapping, Monitoring and Risk Assessment: Analysis of Existing Tools Techniques and Approches. **Disaster Management** Vol. 7, No. 1&2, Dec. 2013 pp. 82-96.

Pandey A.C., **Nathawat M.S.** and Ghosh, Swagata (2012). Glacier Morphometric Control on Glacier area changes in Great Himalayan Range, Jammu & Kashmir, India. **Current Science. (Accepted for publication)**

Ghosh Swagata, Pandey A.C., **Nathawat M.S.**, Bahuaguna I.M., and Ajai (2011). Evaluating geological and geomorphological control on changes in Higher Himalayan Range, Jammu and Kashmir, India. **Journal of Geomatics**. Vol.5 No.2, 79- 84 .

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(4) Other Publications:

HONOURS/AWARDS/DISTINCTIONS:

- Awarded Baden-Wuerttemberg Fellowship-2009-10 (Under Indo-German Cultural Exchange Programme)
- Member Expert Committee NRDMS, DST, Govt. of India
- Member Expert Committee SERB,DST, Govt. of India
- Member Expert Committee NRDMS (SC/ST),DST, Govt. of India
- Member 6th Survey of Research in Geography- ICSSR, GOI
- Member Expert Committee NNRMS SC-B, MoEF, Govt. of India
- Expert Committee member for University Grant Commission
- Member Governing Body –SOL- Delhi University, Jharkhand Space Application Centre
- Member Board of Studies etc.- Delhi University, IIS University, S. Gyan Vihar University, Central University Haryana, Guru Ghasidas University, Bilaspur, MDS University, Ajmer, BHU Varanasi, NEHU Shilong, Jammu University, Jammu, IP University, Delhi, Central University Jharkhand

PROFESSIONAL ASSOCIATIONS:

- Indian Society of Remote Sensing
- Indian Society of Technical Education
- Commonwealth Human Ecology Council of India
- National Association of Geographers of India
- The Eastern Geographical Society
- The Rajasthan Geographical Association
- Regional Science Association
- North Eastern Geographical Association
- Deccan Geographical Society
- IGI Pune
- National Science Congress
- INCA

Activities at IGNOU:

- i. Member Programme Development Committee for the programmes BDP Geography (Major and General), BSc. Geography under UGC CBCS (General and Hons.), MSc. Geography, M.Phil./Ph.D. in Geography and PG Diploma in GIS and GeoSpatial Analysis (Preparation of Phase Forms, Development of Syllabi, Expert Committee Meetings and Member of Course Design Committee for various courses).
- ii. Observer for OPENMAT/ BSc. N(PB)/Ph.D./M.Phil./B.Ed./M.Ed. Entrance Tests, Question Setter, Evaluation of various papers, Examiner of M.Phil. and Ph.D. Dissertations/Thesis, etc.
- iii. Chairman House Allotment committee and Member various committees like AC, ACSC, RC, RCSC, MPDD etc.