

## CURRICULUM VITAE

### 1. Personal Information:

- i. Name : Shakil Ahmad **Romshoo**  
ii. Sex : Male  
iii. Date of Birth : 13 April, 1964  
iv. Addresses for Correspondence:

<b>Current Address</b>	: Islamic University of Science and Technology (IUST) 1, University Avenue, Awantipora J&K 192122.
<b>Contact</b>	: 01933-247265 (O), 01933-247248 (Fax); <sup>[SEP]</sup> :+91-9419010924 (M); +91-194-2315391 (R),
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### 2. Career Summary and Expertise:

I have obtained my Ph.D. in Water resources engineering from the University of Tokyo, Japan and M.S. in Remote Sensing and GIS from the Asian Institute of Technology, Bangkok Thailand. With more than 33 years' research/academic experience, I have worked, in the past as a Scientist at the Japan Aerospace Exploration Agency (JAXA), Tokyo and Fellow at The Energy and Research Institute (TERI), New Delhi. I have been Dean for Research and headed several Departments at the University of Kashmir. Currently, I am the Vice-chancellor at the Islamic University of Science and Technology (IUST). I have published more than 200 peer reviewed articles in national/international journals and have guided 21 M.Phil./Ph.D. students till date. Besides academics, administration and consultancy, I am engaged in collaborative and sponsored research on hydrology, glaciology and climate change studies in the Himalaya. I am a member of several policymaking committees and working groups related to environment, water, climate change and disaster management at the state, national and international level.

My peers have acknowledged the multidisciplinary academic and research contribution made by me during 32 years of my academic/research experience in earth and environmental sciences, evident from the Citation Index of ~3100, h-Index of 31 and i-10 index of 81 and cumulative impact factor score of ~280 for my research work as recorded by the Google Scholar by August, 2021. The knowledge outcome from some of my research has fed into the policymaking and planning for disaster management, environmental management and climate change adaptation strategies at the national/state level. I was awarded the National Geoscience award 2013 for my significant contribution to the use of geo-information technology for earth and environmental sciences. In 2019, I was awarded the Satish Dhawan Award by the Indian Society of Remote sensing (ISRS) for my life time contribution in the development and application of remote sensing algorithms for earth and environmental sciences.

The focus of my research remote sensing and GIS for developing hydrological, glaciological and climate change applications, with the geographic focus of north western Himalaya. I have used POLInSAR for assessing soil moisture under varied field conditions. Using the remotely sensed soil moisture in hydrological models, I have researched the better characterization and quantification of the hydrological processes using distributed hydrological models. Extending the approach of SAR-based soil moisture estimation to plant moisture, I demonstrated the use of SAR for biomass estimation and for implementation of the Kyoto protocol to the UNFCCC. I have made an extensive use of GIS for watershed hydrology and characterization in order to understand and model the land surface processes in the mountainous western Himalaya. I have quantified the sources of nutrient loading to the mountainous high altitude lakes and wetlands in the Kashmir Himalayan region using geospatial modelling approach for which I was awarded the Kasumigaura International prize in 2009 by the government of Japan.

Under collaborative research, I have coproduced a few significant research outcomes in glaciology and climate change. My research on the glacier dynamics and the impacts of climate change on cryosphere in the Himalaya indicates that the glaciers are responding differentially to climate change. Under the grant from GoI, I have established the National Ice-core Laboratory at the University of Kashmir in 2019. I have researched and provided scientific basis to the depleting streamflow in the upper Indus basin, the waters of which are shared between India and Pakistan under the IWT. I have won more than a dozen awards from various governments, scientific and civil societies for my research in the field of earth and environmental sciences. I am elected Fellow of the Indian Society of Remote Sensing (2019); Indian Society of Geomatics (2020); and Indian Academy of Sciences (2021).

### 3. Educational Qualifications:

Name and Location of Institute	Major	Degree	GPA/Division	Awards/Distinction
Department of Civil Engineering, IIS, University of Tokyo, Japan	Water Resource Engg, Geoinformatics	Ph.D.	Excellent	Asian Development Bank International Fellowship
Dept. of Space Technology, Asian Institute of Technology (AIT), Bangkok, Thailand	Remote Sensing & GIS	M.S	3.88 out of 4.000	2 <sup>nd</sup> Position among 30 students; NORAD (Norway) Fellowship
Birsa Univ., Ranchi, India	Hydrology & Watershed Management	B. S.	4.00 out of 4.00	1 <sup>st</sup> Position among 35 Students, Gold Medallist, Outstanding Merit Scholarship

#### 4. Employment History:

Name and Location of the organisation	Position Title	Date of Employment
Department of Environment and Remote Sensing, J&K Government India.	Scientific Assistant (Gazetted)	Dec., 1988 to Dec., 1995
Space Technology Application and Research (STAR) Program, Asian Institute of Technology, AIT, Bangkok Thailand	NORAD Scholar	From Jan., 1996-Oct., 1997
Institute of Industrial Sciences (IIS), University of Tokyo, Tokyo, Japan	ADB Scholar	From Nov,1997 –Oct., 2000
Earth Observation Research Centre (EORC), Japan Aerospace Exploration Agency (JAXA), Tokyo Japan.	Scientist	Nov., 2000- Oct., 2003
The Energy and Resources Institute (TERI), New Delhi India.	Fellow	Nov. 2003 to 20 May, 2004
Department of Earth Sciences, University of Kashmir, Srinagar India	Assoc. Professor Professor Head of the Department	20 May, 2004-19 May, 2010 20 May, 2010-up-to-date 6 Dec, 2004- 15 Jan. 2008 1 Mar. 2011-1 Mar. 2019 (+11 years)
PG Department of Geoinformatics, University of Kashmir, Srinagar, India	Head of the Department	December, 2009-Aug., 2021 (~12 years)
University of Kashmir, Srinagar, India	Dean for Research	13 May, 2020-16 Aug., 2021
Islamic University of Science and Technology (IUST), Awantipora, India	Vice-chancellor	16 August, 2021-up-to-date (For three years)

**Total research/teaching experience=+32 years**

#### 5. Award/Achievement details (domestic and International)

Some of the outstanding achievements in the field of research and academics are chronologically listed below:

- i). **Fellow** of the Indian Academy of Sciences since 2021
- ii). **Fellow** of the Indian Society of Geomatics (ISG) since 2020
- iii). **Fellow** of the Indian Society of Remote Sensing (ISRS) since 2019
- iv). Won the **Professor Satish Dhawan Award in 2019** for the outstanding lifetime contributions in the development and application of Remote Sensing and GIS techniques for Earth and Environmental Sciences,
- v). Won the **CRDP Award of The Year-2016** in the Research category conferred by the Kashmir Civil Society Jury on 19 March, 2017.
- vi). Won the **ISG President's Appreciation Award 2015** conferred by the Indian Society of Geomatics (ISG) for outstanding contribution in the field of Geomatics in India.
- vii). Won the **National Geosciences Award 2013** conferred by the President of India for outstanding contribution in the field of Geographic information System
- viii). Won the **Best Teacher and Best Researcher Awards** (2010) from the University of Kashmir, Srinagar, Kashmir for overall achievement in the field of research, teaching and outreach activities.
- ix). Won the **ISG Best Chapter Award (2010)** from the Indian Space Research Organization, Ahmedabad Conferred by Shri Narendra Modi
- x). Won the **Kasumigaura International Prize** (2009) from the International Lake Organization, sponsored by Japanese Government, for the research titled "Geospatial Modeling Approach for Assessing the Nutrient Load of a Himalayan Lake"
- xi). Won the **Merit of Appreciation** (2007) from the University of Kashmir when I headed the Department of Geology and Geophysics from 2004-07.
- xii). Won the **Best Journal Paper Award** from the Indian Society of Remote Sensing (ISRS) for 2003 for the research paper titled "Influence of Surface and Vegetation Characteristics on C-band Radar Measurements for Soil Moisture Content. *Journal of Indian Society of Remote Sensing*, vol. 30, No. 4, pp. 229-244."

#### Other Awards and Achievements

- xiii). Won the **Best Paper Award** (for the paper titled "Hydrological Modelling and Flood Vulnerability Assessment in Upper Jhelum Basin using Station and Gridded Precipitation Datasets" from the Indian Society of Geomatics and Indian Society of Remote Sensing during the joint symposium of the ISG and ISRS at Ahmedabad India from 5-7 December, 2018.
- xiv). Won the **Best Paper Award** (Shared with student) for the paper in 2017 for the paper titled "Evaluating the remotely sensed precipitation estimates with in-situ observations during the September 2014 extreme

rainfall event over Kashmir valley” from the Indian Meteorology Society (IMS) at INTROMET-2017, Ahmedabad, India

- xv). Won the **Best Paper Award** for the research paper titled “Futuristic land cover projects over Kashmir valley using CLUE Model” at the 100<sup>th</sup> *Indian Science Congress*, 2013 held at the Calcutta University, Kolkata, India.
- xvi). Won the **Best Paper Award** (Shared with student) in 2011 for the paper titled “Modeling Hydrologic Responses to Changing Land System in Dal Lake Catchment” from the Indian Society of Geomatics (ISG), at Ajmer India
- xvii). Won the **Best ISG Chapter Award** (as Chairman of the Kashmir Chapter) from the Indian Society of Geomatics, ISRO for the year 2010 on 2 Feb., 2010 at Space Application Centre, ISRO, Ahmadabad, Gujarat
- xviii). Won the **Best Paper Award** in 2009 for the paper titled “A Comprehensive GIS-based Modeling Approach for Assessing the Sediment Load of Dal Lake” from the Indian Society of Geomatics (ISG), at Ahmadabad, India
- xix). Won the **Best Research Award** in 2009 for the paper titled “Geoinformatic Tools for Comparative Studies of Pollution Analysis in two Micro-watersheds from the Indian Society of Remote Sensing, (ISRS), at Ahmadabad.
- xx). Won the **Best Research Award** (Scientist category) in 2007 for the research paper titled “Satellite Remote Sensing for Determining the Changes in the Glacier Geometry and Dynamics” from the Indian Society of Geomatics, at Bhopal, India.
- xxi). Won the **Best Paper Award** (Scientist category) in 2006 for the research paper “Estimation of Forest Biomass in Temperate Forests Using Airborne Multi-frequency Polarimetric SAR Data” from the International Society of Photogrammetry and Remote sensing (ISPRS) and Indian Society of Remote Sensing (ISRS) at the joint symposium held at Goa, India.
- xxii). Won the **Best Presentation Award** from the Japan Society of Hydrology and Water Resources, Tokyo for the research paper titled “Soil Moisture Estimation Using Microwave Remote Sensing Techniques and simulation Modeling” in the Annual Symposium of the Society held from 17-19 September, 2000 at Kyoto, Japan

#### 6. Completed/On-going Research Projects (with the financial/budgetary support of ~45.00 crores)

S. No.	Project Title	Sponsors
<b>Completed Sponsored Research Projects</b>		
1	Climate change impacts on water resources in Western Himalayas	ERSDAC, Japan
2	Snow and Glacier Studies in Zanaskar Himalayas (Phase-I)	SAC, ISRO, India
3	Use of RS/GIS for Flood Disaster Management Plans in Kashmir Valley	ActionAid, UK
4	Mapping the Indicators of Desertification using SAR data	ISRO, India
5	Developing a Desertification Vulnerability Index Model	ISRO, India
6	National Wetland Inventory and Assessment of J&K Himalayas	SAC, ISRO, India
7	Biodiversity Characterization at Landscape Level using Remote Sensing and GIS	NRSC, ISRO India
8	Integrated Environmental Analysis of Lidder Using Remote Sensing and GIS	MOEF, India
9	Assessing the Flood Vulnerability of Jhelum Basin using Geospatial Techniques	UGC, India
1	National Irrigated Area Assessment Project of J&K State	NRSC, ISRO India
11	Integrated Flood Vulnerability Assessment of Jhelum for Risk Reduction and Mitigation	DST, India
12	SAR for mapping the indicators of Desertification in Cold desert region of Ladakh	SAC, ISRO, India
13	Glaciological Studies of the Jhelum and Suru basins (Phase-II)	SAC-MOEF, India
14	Groundwater Quality Assessment under RGNDWM Phase-IV	NRSC, ISRO India
15	Desertification Status Mapping of J&K State (phase II)	SAC, ISRO, India
16	Assessing impact of Climate Change on Hydrology of Jhelum	MOES, India
17	Inter-University Consortium on Cryosphere & Climate Change (IUCCCC) titled project Himalayan Cryosphere & Climate Change: Science & Society	DST, GOI
18	Integrated Studies on Himalayan Cryosphere sponsored	SAC ISRO
19	Seismic microzonation of Srinagar city	MoES, India
<b>Completed Consultancy Projects</b>		
1	EIA of Lasipora Industrial Estate, JK Industries Dept	J&K Govt.
2	EIA of the Cement Industries, Khonmoh	Pvt. Sector
3	EIA of the Greater Pahalgam Master Plan	J&K Govt.
4	EIA assessment of the Mukhdom sahib shrine ropeway	J&K Govt.
5	EIA studies of the Gulmarg Development Authority	J&K Govt.
6	EIA studies of the Yousmarg Development Authority	J&K Govt.
7	EIA studies of Sonmarg Development Authority (SDA)	J&K Govt.
8	EIA of Wullar Conservation Plan	J&K Govt.

9	EIA of the Bursar Hydroelectric Power Project, Kishtwar	NHPC
10	Multi-hazard risk assessment of the Kashmir valley	World Bank
11	Projections of Cryosphere in Indian Himalayan for the Third National Communication	UNDP
12	GIS for sustainable tourism development planning of the Kargil Development Authority	J&K Govt.
<b>On-going Sponsored Research Projects</b>		
1	NMHS sponsored research project on developing System Dynamics Model for two ..... (ending March, 2022)	MoES, India
2	Desertification and Land degradation studies in J&K State (ending March, 2021)	SAC, ISRO
3	NMHS sponsored project on enhancement of the quality of livelihood opportunities and resilience for the people in the Indian Himalayas (ending March, 2022) as Co-PI	MoEF, India
4	Development of a model-based polarimetric decomposition for glacier ice (ending March, 2023)	SAC ISRO
5	CoE for Glaciological Research in Western Himalaya (ending March, 2025)	DST, GOI
7	Geomatics, Glacial hydrology and Climate change studies under RUSA 2.0 (ending March 2023)	MHRD
<b>On-going Consultancy projects</b>		
1	EIA of the shifting of the houseboat to Doledeemb	J&K Govt.

## 7. Membership of the Scientific and Policy Making Bodies:

- i. Member, Planning and Monitoring Board, Central University of Kashmir, Srinagar (2020)
- ii. Member, University Council, University of Kashmir, Srinagar Kashmir India (2020-2023)
- iii. Member, Committee for Policymaking on Houseboat operation in Dal/Nigeen Lakes, Govt. of J&K (2020)
- iv. Member, Advisory Committee on Earth Sciences, Central University of Jammu (2020)
- v. Member, TF on Water/Climate Change, Chao Track-II Indo-Pak Dialogue by Australia India Institute (2020)
- vi. Invited Member, Academic Council, Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun (2019-22)
- vii. Member, State Expert Appraisal Committee, J&K Environmental Impact Assessment Authority (2019-22)
- viii. Expert Panel Member, National Environmental Research Council (NERC), UK, **Newton-Paulet Fund** 2018
- ix. Expert Panel Member, National Environmental Research Council (NERC), UK, **Newton-Baba Fund** 2016
- x. Member, National Institute of Hydrology Society, Ministry of Water Resources, Govt. of India (2016-19)
- xi. Member (invited), State Executive Committee, J&K State Disaster Management Authority (SDMA).
- xii. Director, Board of Directors, Centre for Dialogue and Reconciliation (CDR), New Delhi since 2018
- xiii. Member, Kashmir University Research Council (2018-2021)
- xiv. Member, University of Kashmir Academic Council (2004-till date)
- xv. Expert Member, Indus Forum (a think tank of the World Bank on Indus River)
- xvi. NABET accredited Functional Area Expert (FAE) for Hydrology, Hydrogeology and Land Use/Land Cover
- xvii. Convenor, Working Group on Climate Change Research (WG-CCR), Kashmir University, Srinagar
- xviii. Coordinator, The Energy Research and Training Consortium for Jammu and Kashmir (ERTC),
- xix. Convenor, Action Group on Spatial Data Infrastructure (SDI), University of Kashmir
- xx. Chairman of the Kashmir Chapter of the Indian Society of Geomatics, ISRO
- xxi. Member, Executive Council, Indian Society of Geomatics
- xxii. Asian Development Bank (ADB) Consultant for EIA of Hydropower Projects
- xxiii. Member of the Shri Amarnathji Shrine Board Sub-committee on Environmental Protection (Co-opted)
- xxiv. Member of the Scientific Advisory Council of the Lakes and Waterways Development Authority (LAWDA) J & K Government (2006-2009; 2010-2013, 2016-2019)
- xxv. Member of the J & K State Level Nodal Agency on Integrated Watershed Management Projects (IWMP), Ministry of Rural Development, J & K Govt.
- xxvi. Member, State Disaster Management Committee, J&K Government
- xxvii. Member, JK Working Group for State Level Climate Change Action Plan, J&K Government
- xxviii. Member, Expert Committee on conservation of Karewa lands, J&K Government.
- xxix. Member, Technical Committee to review of the Wullar Lake Management Action Plan (MAP) -2013
- xxx. Member, Expert Committee on Uttarakhand Disaster, DST, GOI, New Delhi
- xxxi. Marquis Who's who in the world 2013 30<sup>th</sup> Edition in print and electronic database
- xxxii. Member, Executive Council, Indian Geological Congress (IGC)
- xxxiii. Member, State Council for Climate Change
- xxxiv. Expert Member, J & K State Water Policy Making Committee, I & FC Dept., J & K Govt.
- xxxv. Expert Member, India-Pakistan Track-II Dialogue on Water by Atlantic Council, US since 2011

- xxxvi. Member, Indian-Pakistan Track-II Dialogue on Water Jinnah Institute, Pakistan and CDR, New Delhi  
xxxvii. Member, Task Force on Climate Change, Chaophraya Dialogue by Australia India Institute since 2015

#### 8. Life membership of Scientific/academic societies:

- i) Founding Member, South Asia Meteorological Association (SAMA) from 2020
- ii) President and Life Member of the Indian Meteorological Society (IMS), Kashmir chapter (2018-)
- iii) Life Member, Indian Science Congress
- iv) Member IEEE Transactions on Geosciences and Remote Sensing
- v) Member, Remote sensing Society, UK
- vi) President and Life member of the Indian Society of Geomatics (ISG), Kashmir Chapter (2008)
- vii) EC Member of the Indian Society of Geomatics (ISG) for two terms (2011-2014 & 2014-2017)
- viii) Life Member of the Indian Society of Remote Sensing (ISRS)
- ix) Life Member, Indian Geological Congress (IGC)
- x) EC Member of the Indian Geological Congress (IGC)

#### 9. Reviewer/Associate Editor/Editor of the National/International Journals:

- i. Geosciences Research Journal (Chief Editor)
- ii. Journal of Environmental Earth Science
- iii. Journal of Environmental Monitoring and Assessment
- iv. Remote Sensing of Environment
- v. IEEE Transactions in Geosciences and Remote Sensing
- vi. Journal of Spatial Hydrology
- vii. International Journal of Geography and Regional Planning
- viii. Arabian Journal of Geosciences
- ix. Indian Journal of Remote Sensing
- x. Indian Journal of Geomatics
- xi. Journal of Environment and Development
- xii. Journal of Applied Hydrology
- xiii. Annals of Glaciology

#### 10. Conference/Workshops/Seminars organized as Coordinator/Organizing Secretary

S. N	Title/Theme of the Conference/Seminar/workshop	Status	Duration	Name of the funding/collaborating agencies
1	Brainstorming Implementation of National Education Policy (NEP2020)	National	20 Sept, 2020	University of Kashmir and Higher Education Dept. J&K Government
2	Past, Present and Future of Dal Lake	Webinar	19 July, 2020	University of Kashmir, People's Environmental Council
3	Earth Day 2019	National	22-27 April, 2019	Ministry of Earth sciences, Govt. of India, New Delhi
4	Steering Committee Meeting, Paleo-climatic change research	National	30-31 Oct, 2018	Ministry of Earth sciences, Govt. of India, New Delhi
5	Climate Change Vulnerability of J&K State	Regional	26 October, 2018	ISG and IMS
6	GIS for Tourism Promotion	Regional	4-5 May, 2018	Tourism Dept. JK Govt.
7	JK Science Congress 2015	National	12-15 Oct., 2015	JKDST, DST Govt. of India
8	Indo-French Field Training Workshop on Himalayan Tectonics	International	20-29 July, 2014	CEFIPRA, New Delhi
9	DST SERB Fast Tracking Group Monitoring Workshop	National	7-8 June, 2014	DST, Govt. of India
10	Climate change and Adaptation Strategies	National	23 April, 2014	FNST, New Delhi
11	Earth Day 2014	National	22 April-2014	Ministry of Earth Sciences
12	PAMC Meeting on Geosciences	National	8-9 June, 2013	Ministry of Earth Sciences, GOI
13	Earth Day 2013	National	22-30 Apr, 2013	Ministry of Earth Sciences, GOI
14	Environmental Sustainability of	National	19 Jan., 2013	Department of Science and

	J&K: Trends and Indicators			Technology, J&K Govt., Indian Society of Geomatics (I)
15	Indo-Australian Workshop on Gneisses Domes & Core Complex	International	19-23 Oct, 2012	Department of Science and Technology, GOI
16	Urban Earthquake Risk Reduction	National	13-15 Oct, 2012	Ministry of Earth Sciences, GOI, National Disaster Management Authority (NDMA)
17	Earth Day 2012	National	22-28 Apr, 2012	Ministry of Earth Sciences, GOI
18	MAC USERS Meeting	National	8-9 April, 2012	Department of Science and Technology
19	Geomatics for G-Governance	National	13-14 Sept., 2011	MOES, DST, ISRO, Various State Remote Sensing Centers and Industry
20	INSPIRE Program	Regional	25-31 Jul, 2011	Dept. of Science and Technology, GOI
21	Earth Day 2011	National	22-28 Apr, 2011	Ministry of Earth Sciences, GOI
22	Lidder Valley Sustainable Development	National	27 Mar, 2010	Ministry of Environment and Forests and Shri Amarnathji Shrine Board (SASB)
23	Earth Day 2010	National	22 Apr, 2010	Ministry of Earth Sciences, GOI
24	Energy Challenges in J&K	International	19-21 May, 2009	J&K State Power Development corporation (SPDC), JK Bank, SSM college of Engineering, Ministry of New & Renewable Energy University of Jammu
25	Spatial Planning for G-Governance	National	29-30 Jun, 2009	J&K Government, WAPMERR India and Sapphire Corp, India
26	Climate Change and Glacial retreat	International	12-14 Oct., 09	Jammu and Kashmir Government
27	Water Resources in India: Concerns, Conservation and Management (WRIIN08)	National	1-3 Nov, 2008	Ministry of Water Resources, Ministry of Environment and forests, Ministry of Earth Science, J&K Government, CSIR
28	Geoinformatics for sustainable development	National	7 May, 2008	Indian Society of Remote Sensing Indian Society of Geomatics
29	One week Capacity building program in Geoinformatics	Regional	25-31 Mar., 2007	University of Kashmir

## 11. Ph. D/M. Phil Research Supervision on Topics of Contemporary Scientific and Societal Importance

### a) Dissertations Titles (Completed/Submitted):

- i) Geomorphological & Hydrological Control on Flood vulnerability of Jhelum [Shakeel Bhat-> **Ph. D**] 2009
- ii) Assessing the Geo-indicators of Land Degradation in the Jhelum Basin [Sumira Zaz->**M. phil**] 2009
- iii) Integrated Impact Analysis of Environmental and Socioeconomic Factors on Pollution Status of Dal Lake using Geospatial Tools [Bazigha Badar-> **Ph. D**] 2011
- iv) A Geospatial Approach to Study Environmental Characterization of a Kashmir Wetland (Anchar) Catchment with Special Reference to Land use/Land cover and Changing Climate [Mansha Nisar-> **Ph. D**] 2012
- v) Predicting Climate Change over Kashmir and Its Impact on Paddy Crop [Mohammad Muslim-> **Ph. D**] 2013
- vi) Assessing the impacts of differential environmental setting on hydrological processes at watershed scale in Jhelum basin [Gowhar Meraj->**M.Phil**] 2013
- vii) Tectono-geomorphic study of loess-paleosols in the Himalayan intermontane Karewa Basin of Kashmir Valley [Reyaz A Dar → **Ph.D**] 2014
- viii) Assessing the climate change impacts on Forests in Kashmir Himalayas [Irfan Rashid-> **Ph.D**] 2015
- ix) Investigating the effects of changing land cover and climatic variability on the hydrology of the Upper Indus Basin (Jhelum basin) [Sumira Zaz -> **Ph.D**] 2016
- x) Glacial lake outburst flooding (GLOF) studies of Cholabari lake, Kedarnath, Uttarakhand, India [Mohd. Rafiq → **M.Phil**] 2016
- xi) Assessing the Hydrology of Himalayan catchments as a function of changing climate and watershed characteristic [Sadaf Altaf->**M.Phil**] 2016
- xii) Black Carbon studies over the Kashmir Himalayas [Mudasir A Bhat →**M.Phil**] 2016
- xiii) High-resolution spatio-temporal integrated analysis of surface water quality, aquatic vegetation and bio-optical properties to assess the pollution status of Dal lake in Kashmir Himalaya [Shabir Khanday]→**Ph.D** 2019
- xiv) Modelling the contributions of snow-melt, glacier-melt and rainfall to stream flow [Asif Marazi]-> **Ph.D**] 2019

- xv) Glacier dynamics and LGM in Lidder valley [Khalid Omar → **Ph. D**] 2019
- xvi) Watershed Based Land Degradation Vulnerability Assessment [Muzamil Amin → **IPh. D**] 2020
- xvii) Characterization of supraglacial debris in parts of Indus Basin, Kashmir Himalaya [Iram Ali → **IPh. D**] 2020
- xviii) Water supply and demand in Jhelum basin under the changing climate [Nahida Ali → **IPh. D**] 2020
- xix) Glacier Dynamics in the Western Himalayas [Tariq Abdullah → **IPh. D**] 2021
- xx) Reconstructing glacial history of Kashmir Himalayas using CRN dating [Omar Paul → **IPh. D**] 2021
- xxi) Atmospheric Aerosols over Kashmir valley [Waheed Shah → **Ph. D**] 2021
- xxii) Ground and satellite based aerosol study over Srinagar city [Mudasir Bhat → **Ph. D**] 2021
- xxiii) Multi-model climate data evaluation to determine changing climate scenarios of J&K [Jasia Bhashir → **Ph.D**] 2021

**b) On-going:**

- i) Water Balance & Flood forecasting under Changing Climate & Weather [Sadaf Altaf → **Ph. D**]
- ii) Understanding the dynamics of debris cover glaciers in Indian Himalaya [Basharat Nabi → **Ph.D.**]
- iii) Streamflow partitioning in the upper Indus basin: Simulations and observations [Ajaz Paray → **Ph.D**]
- iv) Water Budgeting of Upper Indus Basin [Ainus Saba → **Ph.D.**]
- v) Seismic-microzonation of Srinagar City [Midhat Fayaz → **Ph. D.**]
- vi) Climate change impacts on horticulture of Kashmir [Munahza → **Ph.D.**]
- vii) SAR for glacier dynamics [Ubair sahad → **Ph. D.**]
- viii) Reconstruction of the paleo-glaciation of the Lidder valley [Saleem → **Ph.D**]

**c) Master's dissertations:**

Have guided **251** Master's dissertations on various topics related to the applications of Remote Sensing and GIS in various fields of earth and environmental sciences

**12. International Academic and Research Exposure**

In my academic and research career spread over 30 years, I have visited and/or lived in a number of countries across various continents of the world. I have spent more than 6 years in Japan researching on various aspects of Earth System Science at University of Tokyo and Japan Aerospace Exploration Agency (JAXA). I have lived in Thailand researching at the Asian Institute of Technology (AIT), Bangkok. During my academic career, I have visited more than a score of countries and the list of countries visited for research collaboration and academic exchange are mentioned below:

*Argentina [1]\*, Australia [1], Austria[2], Bangladesh [1], Britain [1], Canada [1], China [2], Egypt[1], France [1], Germany [2], Hong Kong [2], Indonesia [3], Japan [12], Kingdom of Saudi Arabia [1], Malaysia [1], Nepal [11], Pakistan[5], Peru[1], Singapore [2], Spain [1], Sri Lanka [5], South Korea [1], Switzerland [1], Taiwan [1], Thailand [9], Iran [1], United Arab Emirate [4], United States of America [3], and Vietnam [1]. [\*indicates the number of visits]*

- I was offered the visiting Fellowship at Kyoto University from Dec-2004 to Feb., 2005 to work with Prof. Kanehiro Kitayama, Center for Ecological Research, Kyoto University, Shiga, Japan on the research titled "Employing Remote Sensing to Map Forest Biomass and Diversity in Borneo Forests"
- I was offered the Baden-Wuerttemberg Fellowship at the South Asian Institute (SAI), University of Heidelberg, Germany for 3 months from November, 2019-January, 2019.
- I am serving as the Adjunct Faculty/Resource Person for running a course on *Environmental Management Planning for a Dynamic Asia* during the Spring Semester 2020 and Spring Semester 2021 at the College of Agriculture and Life Sciences (CALs), Cornell University, USA with Dr. James P. Lassoie, Professor of Natural Resources as the main faculty of the course.

**13. International and National Research Collaborations**

I have/am collaborating with the following national and international organizations:

**International**

- i) Water Resources Research Lab, Institute of Industrial Sciences (IIS), University of Tokyo, Japan
- ii) Earth Observation Research Centre (EORC), Japan Aerospace Exploration Agency (JAXA), Tokyo Japan
- iii) South Asian Institute, Heidelberg University Germany
- iv) Department of Earth Sciences, University of Gottingen, Germany
- v) Space Technology Application Program (STAR), Asian Institute of Technology (AIT), Bangkok, Thailand.
- vi) Department of Physical Sciences, Australian National University (ANU), Canberra, Australia
- vii) Department of Geosciences, University of Fribourg, Switzerland
- viii) School of Architecture and Planning, University at Buffalo, USA
- ix) International Centre Integrated Mountain Development (ICIMOD), Kathmandu Nepal

- x) World Bank, Washington, USA
- xi) Department of Earth Sciences, Australian National University, Canberra

### **National**

- xii) Space Application Centre (SAC), Indian Space Research Organization (ISRO), Ahmadabad
- xiii) National Remote Sensing Centre (NRSC), Hyderabad, India
- xiv) National Geophysical Research Institute (NGRI), Hyderabad, India
- xv) Centre for Mathematical and Computer Simulations (CMACS), Bangalore, India
- xvi) Indian Institute of Tropical Meteorology (IITM), Pune, India
- xvii) Geological Survey of India, Kolkata India
- xviii) National Atmospheric Research Laboratory, Dept. of Space, Chittoor, Andhra Pradesh, India
- xix) Jawaharlal Nehru University (JNU), New Delhi, India
- xx) Jammu University, Jammu
- xxi) Sikkim University, Sikkim
- xxii) National Physical Laboratory (NPL), New Delhi
- xxiii) Jamia Millia Islamia (JMI), New Delhi
- xxiv) GB Pant National Institute of Himalayan Environment and Development, Almora Uttarakhad.

## 14. Recent Publications:

### ***Refereed International/national Journal Articles***

#### **Under Review:**

1. Omar Paul, Reyaz A Dar and Shakil A. **Romshoo** (2021). Tectono-climatic control on cirque development in the Pir Panjal Range, NW Himalayas, India. *Catena* (IF: 4.333)
2. **Romshoo**, Shakil Ahmad, Khalid Omar Murtaza and Tariq Abdullah (2021). Direct and Geodetic Mass Balance Studies of the Debris-covered Hoksar Glacier, Upper Indus Basin. *Journal of Glaciology* (IF: 3.77)
3. **Romshoo**, Shakil Ahmad, and Asif Marazi (2021). Assessing the Impacts of Climate Change on Snow Precipitation and Streamflow in the Upper Indus Basin. *Climatic Change* (IF: 4.998)
4. Shakil Ahmad **Romshoo**, Tariq Abdullah, Irfan Rashid and I.M Bahuguna (2021). Understanding glacier dynamics across different mountain ranges in the Jammu and Kashmir Himalaya, India *Cold Region Science and Technology* (IF: 3.31)
5. **Romshoo**, Shakil Ahmad and Sadaf Altaf (2021). Modelling the Flood Vulnerability of the Upper Jhelum basin In Kashmir Himalaya, India. *Applied Geography* (IF: 4.241)
6. Sumira N. Zaz, Shakil A. **Romshoo** (2021). Landslide Susceptibility Mapping of Kashmir Himalaya India, Combining Modeling Approaches in GIS. *Arabian Journal of Geosciences* (IF:1.67)

#### **2021**

7. **Romshoo**, Shakil Ahmad, Mudasir Ahmad Bhat and Gufran Beig (2021). Particulate Pollution Over the Idyllic Kashmir Urban Site: Temporal Variability, Meteorology and Potential Sources. *Science of the Total Environment*, <https://doi.org/10.1016/j.scitotenv.2021.149364> (IF:7.963)
8. **Romshoo**, Shakil Ahmad, Tariq Abdullah, and Mustafa Hameed Bhat (2021). Evaluation of the Global and Regional Glacier Inventories and Assessment of Glacier Thickness Changes over North-western Himalaya. *Earth System Science Data Discuss.* [preprint], <https://doi.org/10.5194/essd-2021-28> (IF: 9.197)
9. Omar Jaan Paul, Reyaz A. Dar, and Shakil Ahmad **Romshoo** (2021). Paleo-glacial and paleo-equilibrium Line Altitude reconstruction from the Late Quaternary glacial features in the Pir Panjal Range, NW Himalayas *Quaternary International*, <https://doi.org/10.1016/j.quaint.2021.03.005> (IF:2.318)
10. Reyaz Ahmad Dar, Omar Jaan Paul, Khalid Omar Murtaza and, Shakil Ahmad **Romshoo** (2021). Late Quaternary Glacial Geomorphology of Kashmir Valley, NW Himalayas: A Case Study of the Sind Basin. In: Taloor, A. K. et al. (eds) *Water, Cryosphere, and Climate Change in the Himalayas*
11. Mudasir Ahmad Bhat, Shakil Ahmad **Romshoo** and Gufran Beig (2021). Estimation of PM<sub>10</sub> and PM<sub>2.5</sub> over Kashmir Himalaya, India Using Satellite Remote Sensing. *Air, Water and Soil Pollution*, 232:120 <https://doi.org/10.1007/s11270-021-05062-x> (IF:2.024)

#### **2020**



12. Khalid Omar, Riyaz A. Dar, Omar Paul, Nisar Ahmad and Shakil A. **Romshoo** (2020). Glacier geomorphology and glacier recession of the Harmukh range, Kashmir Himalaya. *Quaternary International*. <https://doi.org/10.1016/j.quaint.2020.08.044> (IF: 2.1)
13. Khalid Omar Murtaza and Shakil Ahmad **Romshoo** (2019). Glacio-geomorphological and lichenometric studies for reconstructing the glacial history of the Hoksar glacier valley, Kashmir Himalaya, India. *Geographica Annalyser* (IF: 3.19).
14. Tariq Abdullah, Shakil Ahmad **Romshoo**, and Irfan Rashid (2020). The Satellite Observed Glacier Mass Changes over the Upper Indus Basin during 2000-2012. *Nature Scientific Reports*. [www.nature.com/articles/s41598-020-71281-7](http://www.nature.com/articles/s41598-020-71281-7) (IF: 4.576)
15. **Romshoo**, S. A., Jasia Bashir and Irfan Rashid (2020). 21<sup>st</sup> Century-end Climate Scenario of Jammu and Kashmir Himalaya, India using Ensemble Climate Models. *Climatic Change*. 62(3), 1473-1491, <https://doi.org/10.1007/s10584-020-02787-2> (IF: 4.89).
16. **Romshoo**, S. A., Midhat Fayaz, Gowhar Meraj and I. M. Bahuguna (2020). Satellite Observed Glacier Recession in the Kashmir Himalaya, India from 1980-2018. *Environmental Monitoring and Assessment*. 24;192(9):597 doi: 10.1007/s10661-020-08554-1 (IF: 2.273)
17. **Romshoo**, Shakil Ahmad, Amin, M, KLN Sastry and Manish Kumar (2020). Integration of Social, Economic and Environmental Factors in GIS for Land Degradation Vulnerability Assessment in Himalaya. *Applied Geography*, 125, 102307 <https://doi.org/10.1016/j.apgeog.2020.102307> (IF:4.241)
18. Meraj, G., Farooq, M., Singh, S. K., **Romshoo**, S. A., Nathawat, M. S., & Kanga, S. (2020). Coronavirus Pandemic vs. Temperature in the context of Indian Subcontinent—A preliminary statistical analysis. *Environment, Development and Sustainability*, <https://doi.org/10.1007/s10668-020-00854-3> (IF: 2.191)
15. **Romshoo** S.A., Rashid I., Altaf S., Dar G.H. (2020) Jammu and Kashmir State: An Overview. In: Dar G., Khuroo A. (eds) Biodiversity of the Himalaya: Jammu and Kashmir State. Topics in Biodiversity and Conservation, vol 18. Springer, Singapore. DOI: [10.1007/978-981-32-9174-4\\_6](https://doi.org/10.1007/978-981-32-9174-4_6)
16. Rashid I., **Romshoo** S.A. (2020) Impact of Climate Change on Vegetation Distribution in the Kashmir Himalaya. In: Dar G., Khuroo A. (eds) Biodiversity of the Himalaya: Jammu and Kashmir State. Topics in Biodiversity and Conservation, vol 18. Springer, Singapore. DOI: [https://doi.org/10.1007/978-981-32-9174-4\\_40](https://doi.org/10.1007/978-981-32-9174-4_40)

## **2019**

17. Yoshihide Wada, Adriano Vinca, Simon Parkinson, Barbara A. Willaarts, Piotr Magnuszewski, Junko Mochizuki, Beatriz Mayor, Yaoping Wang, Peter Burek, Edward Byers, Keywan Riahi, Volker Krey, Simon Langan, Michiel van Dijk, David Grey, Astrid Hillers, Robert Novak, Abhijit Mukherjee, Anindya Bhattacharya, Saurabh Bhardwaj, **Shakil Ahmad Romshoo**, Simi Thambi, Abubakr Muhammad, Ansir Ilyas, Asif Khan, Bakhshal Khan Lashari, Rasool B Mahar, Rasul Ghulam, Afreen Siddiqi, James Wescoat, Nithiyandam Yogeswara, Ather Ashraf, Balwinder S Sidhu, Jiang Tong et al.. (2019). Co-designing Indus Water-Energy-Land Futures. *One Earth*, 185-194, <https://doi.org/10.1016/j.oneear.2019.10.006>
18. Khalid Omar Murtaza, Shakil A. **Romshoo**, Irfan Rashid and Waheed Shah (2019). Geo-spatial assessment of groundwater quality in Udhampur Sub-Himalaya, Jammu and Kashmir, India. *Proceedings of the National Academy of Sciences, India Section A: Physical Sciences*, 90(5), 883-897 (IF: 0.759).
19. Gopaldaswami Raghavan, Shakil A. **Romshoo**, Chandra, R., and T. Natarajan (2019). Environmental Infrasound and Its Impact on Public Health in the Kashmir Region. *Open Journal of Earthquake Research*, Vol, 2019(8): 165-190 (IF: 0.67)
20. Ishfaq Paul, Gowhar Meraj, Shakil A **Romshoo** (2019). Applying integrated remote sensing and field-based approach to map glacial landform features of the Machoi Glacier valley, NW Himalaya. *Springer Nature Applied sciences*, 1(2019): 1-13 <https://doi.org/10.1007/s42452-019-0503-7>
21. Sumira N. Zaz, Shakil A. **Romshoo**, T. K. Ramkumar and V. Yesu Babu (2019). Analyses of temperature and precipitation in the Indian Jammu and Kashmir region for the 1980–2016 period: implications for remote influence and extreme events. *Atmos. Chem. Phys.*, 19, 15–37, Doi: <https://doi.org/10.5194/acp-19-15-2019> (IF: 5.896)
22. Mohammd Rafiq, Shakil Ahmad **Romshoo**, Onoop Mishra and Faizan Bhat (2019). Modelling Chorabari Lake outburst flood, Kedarnath, India. *Journal of Mountain Science*, Vol. 16, pages 64–76 <https://doi.org/10.1007/s11629-018-4972-8> (IF: 1.151)
23. Dar, R. A, Mir, S. A. and **Romshoo**, S. A. (2019). Influence of geomorphic and anthropogenic activities on channel morphology of River Jhelum in Kashmir Valley, NW Himalayas. *Quaternary International*, 507(2019): 331-341 DOI: <https://doi.org/10.1016/j.quaint.2018.12.014> (IF: 2.128)
24. Gowhar Meraj, Tanzeel Khan, Shakil A **Romshoo**, Majid Farooq, Kumar Rohitashw, Bashir Ahmad Sheikh (2019). An Integrated Geoinformatics and Hydrological Modelling-Based Approach for Effective

Flood Management in the Jhelum Basin, NW Himalaya. *Proceedings* 2019, 7, 8; doi:10.3390/ECWS-3-05804

25. Shakil Ahmad **Romshoo** and Midhat Fayaz (2019). High Resolution Remote Sensing for Improving Environmental Friendly Tourism Master Planning in the Alpine Himalaya. *Journal of Himalayan Ecology and Sustainable Development*. Vol. 14(2019): 34-52, ISSN No. 0973-7502

## **2018**

26. Shakil A **Romshoo** and Sadaff Altaf (2018). Geomatics Applications for Himalayan Region. In: Advancements in geospatial technology for societal benefits, Special issue of the Indian Society of Geomatics Newsletter, Vol. 24 (3-4): 1-6, December, 2018.
27. Irfan Rashid, Ajaz Ahmad Parray and Shakil Ahmad **Romshoo** (2018). Evaluating the Performance of Remotely Sensed Precipitation Estimates against In-Situ Observations during the September 2014 Mega-Flood in the Kashmir Valley. *Asia Pacific Journal of Atmospheric Sciences*, Vol. 55, pages 209–219 <https://doi.org/10.1007/s13143-018-0071-6> (IF:1.65)
28. Muzamil, Amin and Shakil Ahmad **Romshoo** (2018). Comparative assessment of soil erosion modelling approaches in a Himalayan watershed. *Modelling Earth Systems and Environment*, DOI: <https://doi.org/10.1007/s40808-018-0526-x>
29. Khanday, S. A., **Romshoo**, S. A., Jehangir, A., Sahay, A., and Chauhan, P. (2018). Environmetric and GIS techniques for hydrochemical characterization of the Dal lake, Kashmir Himalaya, India. *Stochastic Environmental Research and Risk Assessment*, Vol. 22(11):3158-3168 (IF:2.668)
30. Sumira N. Zaz, Shakil A. **Romshoo**, T. K. Ramkumar and V. Yesu Babu (2018). Climatic and extreme weather variations over Mountainous Jammu and Kashmir, India: Physical explanations based on observations and modelling. *Atmos. Chem. Phys. Discuss.*, <https://doi.org/10.5194/acp-2018-201> (IF: 5.896)
31. Chandra, R., Dar, J., **Romshoo**, S. A., Rashid, I., Parvez, I. A., Mir, S. A. and Fayaz, M. (2018). Seismic Hazard and Vulnerability Assessment of Kashmir Valley, NW Himalaya, India. *Natural Hazards*, Vol. 93:1451–1477, <https://doi.org/10.1007/s11069-018-3362-4> (IF:1.833)
32. Asif Marazi and Shakil A. **Romshoo** (2018). Streamflow response to shrinking glaciers under changing climate in Lidder Valley, Kashmir Himalayas, India. *Journal of Mountain Science* 15(6): 1241-1253. <https://doi.org/10.1007/s11629-017-4474-0> (IF: 0.875)
33. Zainab Hakim, Gufran Beig, Srinivas Reka, Shakil A. **Romshoo**, and Irfan Rashid (2018). Winter Burst of Pristine Kashmir Air. *Nature Scientific Reports*. 8, Article number: 3329, doi:10.1038/s41598-018-20601-z (IF: 4.847).
34. Shakil A **Romshoo**, Mohammad Rafiq and Irfan Rashid (2018). Spatio-temporal Variation of Land Surface Temperature and Temperature Lapse Rate over Mountainous Kashmir Himalaya, India. *Journal of Mountain Science*, 15(3):563-576 (IF: 1.151)
35. Shakil A. **Romshoo**, Sadaf Altaf, Irfan Rashid and Reyaz A. Dar (2018). Climatic, Geomorphic and Anthropogenic Drivers of 2014 Kashmir Extreme Flooding in Kashmir, India. *Geomatics, Natural Hazards and Risk*, Vol. 9 (1): 224-248 (IF: 2.52)
36. Irfan Rashid, Tariq Abdullah, Neil F. Glasser, Heena Naz, Shakil Ahmad **Romshoo** (2018). Surge of Hispar Glacier, Pakistan, between 2013 and 2017 detected from remote sensing observations. *Geomorphology*, Vol. 303:410-416. <https://doi.org/10.1016/j.geomorph.2017.12.018>. (IF: 3.352)
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## **2017**

38. Mir, R. R., Parvez, I. A., Gaur, V. K., Chandra, R., and **Romshoo**, S. A. (2017). Crustal Structure beneath the Kashmir Basin Adjoining the Western Himalayan Syntaxis. *Bulletin of the Seismological Society of America*, 107(5), 2443-2458. <https://doi.org/10.1785/0120150334> (IF:2.469)
39. Mudasir A. Bhat, Shakil A. **Romshoo** and Gufran Beig (2017). Black carbon aerosol over a Himalayan urban city, Srinagar, India: Seasonality, sources and meteorological influences, *Atmospheric Environment*, Vol. 165:336-348 <https://doi.org/10.1016/j.atmosenv.2017.07.004>(IF: 3.841)
40. Gowhar Meraj, Shakil A. **Romshoo**, Sameena Ayoub, Sadaff Altaf (2017). Geoinformatics based approach for estimating the sediment yield of the mountainous watersheds in Kashmir Himalaya, India. *Geocarto International*, Vol. 10 (10):1114:1138, DOI: <http://dx.doi.org/10.1080/10106049.2017.1333536> (IF: 1.6)
41. Riyaz A Dar, Omar Paul, Khalid Omar and Shakil A. **Romshoo** (2017). Glacial-geomorphic study of the Thajwas glacier valley, Kashmir Himalayas, India. *Quaternary International*, 444, pp. 157-171 DOI: <https://doi.org/10.1016/j.quaint.2017.05.021> (IF: 2.383)

42. Shakil A. **Romshoo**, Sadaf Altaf, Muzamil Amin and Ummer Ameen (2017). Sediment Yield Estimation for Developing Soil Conservation Strategies in GIS Environment for the Mountainous Marusudar Catchment, Chenab Basin, J&K, India. *Journal of Himalayan Ecology and Sustainable Development*. Vol. 12(2017): 16-32, ISSN No. 0973-7502
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45. Irfan Rashid, Shakil Ahmad **Romshoo**, Muzamil Amin, Shabir Ahmad Khanday (2017) Linking Human-Biophysical Interactions with the trophic status of Dal lake (2017). *Limnologica- Ecology and Management of Inland Waters*, 62: 84–96) <https://doi.org/10.1016/j.limno.2016.11.008>. (**IF: 1.541**).
46. Tuhin Kumar Mandal, A. Sen; A.S. Abdelmaksoud; Y. Nazeer Ahammed; Mansour A. Alghamdi; TirthanKar Banerjee; Mudasir Ahmad Bhat; A Chatterjee; Anil K. Choudhari; Trupti Das; Amit Dhir; Ranu Gadi; Sanjay Ghosh; A.H Khan; M. Khoder; K. Maharaj Kumari; Jagdish Chandra Kuniyal; Manish Kumar; Anita Lakhani; Parth Sarathi Mahapatra; Manish Naja; Dharam Pal Singh; S Pal; Mahammad Rafiq; Shakil Ahmad **Romshoo**; Irfan Rashid; Prasenjit Saikia; D. M. Shenoy; Vijay Sridhar; Nidhi Verma; B. M. Vyas; Mohit Saxena; A Sharma; S. K. Sharma (2017). Variations in particulate matter over Indo-Gangetic Plains and Indo-Himalayan Range during four field campaigns in winter monsoon and summer monsoon: Role of pollution pathway. *Atmospheric Environment*, 154:200–224 <https://doi.org/10.1016/j.atmosenv.2016.12.054>, (**IF:3.841**)
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48. Shakil A **Romshoo**, Reyaz A Dar, Khalid Omar Murtaza, Irfan Rashid and Farooq A. Dar (2017). Hydrochemical Characterization and Pollution Assessment of Groundwater in Jammu Siwaliks, India. *Environmental Monitoring and Assessment*, 189:122, ISSN No.: 1573-2959 <https://doi.org/10.1007/s10661-017-5860-3>. (**IF: 1.68**)

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49. Aparna Shukla, Iram Ali, Nazia Hasan and Shakil A. **Romshoo** (2016). Dimensional changes in the Kolahoi Glacier from 1857 to 2014. *Environmental Monitoring and Assessment*. 189(5): doi:10.1007/s10661-016-5703- ISSN No.: 1573-2959 (**IF: 1.68**).
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51. Irfan Rashid, Shakil A. **Romshoo**, Javaid Ahmad Hajam and Tariq Abdullah (2016). A Semi-Automated Approach for Mapping Geomorphology in Mountainous Terrain, Ferozpora watershed (Kashmir Himalayas). *Journal of the Geological Society of India*, 88(2): pp 206–212 DOI: [10.1007/s12594-016-0479-5](https://doi.org/10.1007/s12594-016-0479-5) (**IF: 0.547**).
52. Shakil A **Romshoo**, Muzamil Amin and Intiyaz Ahmad (2016). Soil Erosion Estimation of Lidder Watershed, Kashmir Himalaya India Using Morgan-Morgan-Finney Model in GIS Environment. *Journal of Himalayan Ecology and Sustainable Development*. Vol 11(2016):3-20, ISSN No. 0973-7502
53. Dar, Reyaz Ahmad, Shakil A. **Romshoo**, Rakesh Chandra, and Ishtiaq Ahmad. "Response to "No major active backthrust bounds the Pir Panjal Range near Kashmir basin, NW Himalaya" by Shah." *Journal of Asian Earth Sciences* 123 (2016): 58-60 <https://doi.org/10.1016/j.jseaes.2016.03.016>, (**IF: 2.74**)
54. Irfan Rashid, Mudasir A. Bhat, and Shakil A. **Romshoo**. "Assessing Changes in the Above Ground Biomass and Carbon Stocks of Lidder Valley, Kashmir Himalaya, India." *Geocarto International* (2016), DOI: <http://dx.doi.org/10.1080/10106049.2016.1188164> (**IF: 1.37**)
55. Mohammad I. Rather, Irfan Rashid, Nuzhat Shahi, Khalid O. Murtaza, Khalida Hassan, A. R. Yousof, Shakil A. **Romshoo** and Irfan Y. Shah (2015). Massive land system changes impact water quality of Jhelum River in Kashmir Himalaya. *Environmental Monitoring and Assessment*, ISSN No.: 1573-2959 (**IF: 1.68**)
56. Khalid O. Murtaza and Shakil A. **Romshoo** (2016). Recent Glacier Changes in the Kashmir Alpine Himalayas, India. *Geocarto International*, DOI: 10.1080/10106049.2015.1132482, Vol. 31(6): ISSN: 1010-6049 (**IF: 1.37**)

## 2015

57. Shakil Ahmad **Romshoo**, Reyaz A. Dar, Irfan Rashid, Asif Marazi, Nahida Ali and Sumira Zaz (2015). Implications of Shrinking Cryosphere under Changing Climate on the Stream flows of the Upper Indus Basin. *Arctic, Antarctic and Alpine Research*, Vol. 47(4): 627-644, ISSN: 1938-4246 (IF:2.231)
58. Reyaz A Dar, Rakesh Chandra, Shakil A **Romshoo**, and Nazia Kousar (2015). Micro-morphological investigations of the Late Quaternary loess-paleosol sequences of Kashmir Valley, India. *Journal of Asian Earth Sciences*. DOI:10.1016/j.jseaes.2015.07.004 (IF: 2.741)
59. Mohammad Muslim, Shakil Ahmad **Romshoo** and A. Q. Rather (2015). Regional scale paddy mapping part of Jammu and Kashmir valley, India using multi-temporal MODIS images. *Geospatial Science*, Vol. 1 (1): 17-30.
60. Irfan Rashid, Shakil Ahmad **Romshoo**, Rajiv Kumar Chaturvedi, NH Ravindranath, Raman Sukumar, Mathangi Jayaraman, Thatiparthi Vijaya Lakshmi and Jagmohan Sharma (2015). Projected Climate Change Impacts on Vegetation Distribution over Kashmir Himalaya. *Climatic Change*, 132(4): 601-613, DOI: 10.1007/s10584-015-1456-5, ISSN: 1573-1480 (IF: 4.62)
61. Gowhar Meraj, Shakil A. **Romshoo**, A. R. Yousuf, Sadaff Altaf, Farrukh Altaf (2015). Assessing the influence of watershed characteristics on the flood vulnerability of Jhelum basin in Kashmir Himalaya: reply to comment by Shah 2015. *Natural Hazards*, DOI: 10.1007/s11069-015-1861-0, Vol. 78(1), pp. 1-5 ISSN: 0921-030X (IF: 1.96)
62. Reyaz A Dar, Rakesh Chandra, Shakil A **Romshoo**, Mahjoor Ahmad Lone and Syed Masood Ahmad (2015). Reply to the comment by Shah on "Isotopic and micromorphological studies of Late Quaternary loess-paleosol sequences of the Karewa Group: inferences for palaeoclimate of Kashmir Valley. *Quaternary International*. Vol. 374, Pp. 200–202, doi:10.1016/j.quaint.2015.03.029, ISSN: 1040-6182 (IF: 2.128)
63. M. Muslim, Shakil A **Romshoo** and A. Q. Rather (2015). Paddy crop yield estimation in Kashmir Himalayan rice bowl using remote sensing and simulation model. *Environmental Monitoring and Assessment*, 187(6): 316 . ISSN No.:1573-2959 DOI 10.1007/s10661-015-4564-9 IF: 1.68
64. P.S. Roy, M.D. Behera, M.S.R. Murthy, Arijit Roy, Sarnam Singh, S.P.S. Kushwaha, C.S. Jha, S. Sudhakar, P.K. Joshi, Ch. Sudhakar Reddy, Stutee Gupta, Girish Pujar, C.B.S. Dutt, V.K. Srivastava, M.C. Porwal, Poonam Tripathi, J.S. Singh, Vishwas Chitale, A.K. Skidmore, G. Rajshekhar, Deepak Kushwaha, Harish Karnataka, Sameer Saran, A. Giriraj, Hitendra Padalia, Manish Kale, Subrato Nandy, C. Jeganathan, C.P. Singh, M.B. Chandrashekhar, Chiranjibi Pattanaik, D.K. Singh, G.M. Devagiri, Gautam Talukdar, Rabindra K. Panigrahy, Harnam Singh, J.R. Sharma, K. Haridasan, Shivam Trivedi, K.P. Singh, L. Kannan, M. Daniel, M.K. Misra, Madhura Niphadka, Nidhi Nagbhatla, Nupoor Prasad, O.P. Tripathi, P. Rama Chandra Prasad, Pushpa Dash, Qamer Qureshi, S.K. Tripathi, B.R. Ramesh, Balakrishnan Gowda, Sanjay Tomar, **Shakil A. Romshoo**, Shilpa Giriraj, Shirish A. Ravan, Soumit Kumar Behera, Subrato Paul, Ashesh Kumar Das, B.K. Ranganath, T.P. Singh, T.R. Sahu, Uma Shankar, A.R.R. Menon, Gaurav Srivastava, Neeti, Subrat Sharma, U.B. Mohapatra, Ashok Peddi, Humayun Rashid, Irfan Salroo, P. Hari Krishna, P.K. Hajra, A.O. Vergheese, Shafique Matin, Swapnil A. Chaudhary, Sonali Ghosh, Udaya Lakshmi, Deepshikha Rawat, Kalpana Ambastha, P. Kalpana, B.S.S. Devi, Balakrishna Gowda, K.C. Sharma, Prashant Mukharjee, Ajay Sharma, Priya Davidar, R.R.Venkata Raju, S.S. Ketewa, Shashi Kant, Vatsavaya S. Raju, B.P. Uniyal, Bijan Debnath, D.K. Rout, Rajesh Thapa, Shijo Joseph, Pradeep Chhetri, Reshma Ramchandran. New vegetation type map of India prepared using satellite remote sensing: Comparison with global vegetation maps and utilities. *International Journal of Applied Earth Observation and Geoinformation*, Vol. 39(2015): 142–159, doi: 10.1016/j.jag.2015.03.003 (IF: 5.34)
65. Gowhar Meraj, Shakil A. **Romshoo**, A. R. Yousuf, Sadaff Altaf, Farrukh Altaf (2015). Assessing the influence of watershed characteristics on the flood vulnerability of Jhelum basin in Kashmir Himalayas. *Natural Hazards*, DOI: 10.1007/s11069-015-1605-1, Vol. 77(1), Pp. 153-175, ISSN: 0921-030X (IF:1.719).
66. Reyaz A Dar, Rakesh Chandra, Shakil A **Romshoo**, Mahjoor Ahmad Lone and Syed Masood Ahmad (2015). Isotopic and micro-morphological studies of Late Quaternary Loess-paleosol Sediments of Karewa Group: implication to paleoclimate of Kashmir Valley. *Quaternary International*. Vol. 371, Pp. 122–134, doi:10.1016/j.quaint.2014.10.060, ISSN: 1040-6182 (IF: 2.128)
67. Nahida Ali and Shakil A. **Romshoo** (2015). Streamflow Changes of Ferozpur Watershed in the Upper Indus Basin, Kashmir Himalayas. *Journal of Himalayan Ecology & Sustainable Development*, Vol 10:27-38

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173. Shakil A **Romshoo** (2015). Understanding the Complex Himalayan Cryosphere. Proceedings of the International Conference on Antarctica Sciences, held at National Centre for Antarctic and Ocean Research (NCAOR), Goa from 12-17 July, 2015. ,
174. Shakil A. **Romshoo** (2015). Need for Integrated Research to Understand the Hydrological Changes in Indus. World Bank Workshop on Indus River organized by the Chinese Meteorological Agency (CMA), CAS, Qingdon, China 13-17 June, 2015
175. Shakil A **Romshoo** (2014). Explaining the Observed Changes in the Himalayan Cryosphere on the Basis of Varying Climatology and Topography. Abstract Proceedings of the National Workshop on Glaciology held at the Himachal Pradesh Council for Science and Technical, Shimla from 30-31 October, 2014.
176. Shakil A **Romshoo** (2014). Climate Change Scenario in the Upper Indus Basin (UIB). Abstract Proceedings of the National Workshop on Climate Change Adaptation Strategies held at the University of Kashmir, Srinagar, Kashmir on 21 April, 2014.
177. Shakil A **Romshoo** (2014). Indus Basin Under Change. Indo-Pakistan Water Dialogue held under aegis of the Atlantic Council, USA at Dubai, UAE, from 29-30 March, 2014
178. Shakil A **Romshoo** (2014). Indus Basin Under Change. National Symposium on South Asian Water commons: People's Visions on Trans-Boundary River Sharing held at the Constitution Club New Delhi India on 22 March, 2014.
179. Shakil A **Romshoo** (2014). Snow and glacier studies in the Upper Indus Basin (Jhelum and Suru basins). Workshop on Snow and Glacier studies held at the Space Application Center (SAC), ISRO Ahmedabad, India from 27-28 Feb., 2014
180. Shakil A **Romshoo**. (2014) Estimating Land Surface Temperature over Kashmir Valley Using MODIS Satellite Data. Abstract Proceedings of the 101<sup>th</sup> Indian Science Congress held at the University of Jammu, Jammu from 3-7 Feb., 2014
181. Shakil A **Romshoo** (2013). Assessing the impacts of climate change on food security of Kashmir valley.

- Abstr. Proceedings of the 100<sup>th</sup> Indian Science Congress held at the Calcutta University, Kolkata, from 3-7 January 2013
182. Shakil A **Romshoo** (2013). Environmental Scenario of J&K: Trends and Indicators. Proceedings of the national Symposium on Environmental Sustainability held at the Gandhi Memorial College (GMC), Jammu on 19 January, 2013.
  183. Nahida, A. and **Romshoo**, S. (2013). Futuristic Land cover changes in Kashmir Valley using CLUE model. Abstr proceedings of the 100<sup>th</sup> Indian Science Congress held at the Calcutta University, Kolkata, India from 3-7 Jan., 201 (ISCA, 2013 Best paper Award-Earth Science Section).
  184. Meraj, G and **Romshoo**, S. (2013). Land System Changes in Kashmir and its impacts on Bear-man conflict. Abstr proceedings of the 100<sup>th</sup> Indian Science Congress held at the Calcutta University, Kolkata, India from 3-7 Jan., 2013
  185. Khalid, O. and **Romshoo**, S. (2013). Assessing the impacts of satellite spatial resolution on landcover mapping accuracy. Abstr proceedings of the 100<sup>th</sup> Indian Science Congress held at the Calcutta University, Kolkata, India from 3-7 Jan., 2013
  186. Shakil A **Romshoo** (2013). Indus Water Sharing: Benefits and Responsibilities. Indo-Pakistan Track-II dialogue on Water held at Dubai from 7-9 November, 2013.
  187. Shakil A **Romshoo** (2013). Climate change and Himalayan Cryosphere. Abstr proceedings of the national joint symposium of the ISG-ISRS held at Andhra University, Vishakhapatnam from 4-6 December, 2013
  188. Shakil A **Romshoo** (2013). Shrinking cryosphere and depleting streamflows under the changing climate in Kashmir Himalayas. Abstr Proceedings of the Indo-Japanese International Workshop on Water Environment Technology (IFWAT-2013) held at the JNU, New Delhi from 18-20 December, 2013.
  189. Shakil A **Romshoo** (2012). Depleting Himalayan Cryosphere: Security implication in South Asia. 5-day Indo-Australian International Workshop held at Manali, H.P from 19-23 October 2012.
  190. Shakil A **Romshoo** (2012). A few key issues on environment, food security and energy development. India-Pakistan Dialogue on water issues held at Lahore, Pakistan 26-27 September, 2012.
  191. Shakil A **Romshoo** (2012). Catchment hydrological response to changing land system in the Kashmir Himalayas. 32<sup>nd</sup> International Geographic congress (IGC), IGU, Cologne, Germany 26-30 August, 2012.
  192. Shakil A **Romshoo** (2012). Understanding the Western Indus Water System Dynamics. Islamabad Dialogue-II, Islamabad Pakistan, 3-5 June, 2012
  193. Shakil A **Romshoo** (2012). Update on Indian Policies, Strategies and Program Related to Climate Change. Asian Forum on Carbon Update (AFCU)-2012 on Low Carbon Economy, Bandung, Indonesia 15-17 February, 2012
  194. Shakil A **Romshoo** (2012). Climate change impacts in Kashmir Himalayas. Proceedings of the India-Tunisia workshop held at the National Geophysical Research Institute (NGRI), Hyderabad from 3-5 February 2012.
  195. Shakil A **Romshoo** (2012). Disaster profile of J&K State. National Conference on Urban Earthquake Disaster Risk Reduction held at the University of Kashmir, Srinagar India from 15-17 October 2012.
  196. Shakil A **Romshoo** and Bazigha Badar (2012). Best Management Practices: A way forward to salvage the degrading Dal Lake Ecosystem. 8th JK Science Congress held at the University of Kashmir, Srinagar, India from 17-19 September, 2012.
  197. Shakil A **Romshoo** and Irum Ali (2012). Statistical analysis of the streamflow discharge in Jhelum basin. National Conference on Tropical Meteorology (Tropmet2012) held at Dehra Dun, Uttarakhand from October, 2012.
  198. Shakil A **Romshoo**, M. Muslim and Rather, A. Q. (2012). Impacts of climate change on crop productivity using G-EPIC Model. National Symposium of the Indian Society of Remote Sensing, New Delhi, India from 3-5 November 2012.
  199. Shakil A **Romshoo** and Umar Firdous (2012). Assessing the impacts of glacier lake outburst flooding on NGHEP. National Symposium of the Indian Society of Geomatics on Disaster Management, Bhagalpur University, Bhagalpur, Patna Bihar India 22-24 February, 2012. (Best paper Award)
  200. Shakil A **Romshoo**, Manzoor Ahmad, and Irfan Rashid (2012). Landscape assessment of Lidder watershed using ATiLA. National Symposium of the Indian Society of Geomatics on Disaster Management, Bhagalpur University, Bhagalpur, Patna Bihar India 22-24 February, 2012 (Best paper Award).
  201. Shakil A **Romshoo** (2011). Assessing the Indicators of Climate Change in Kashmir Himalayas. Proceedings of the National Symposium of the Indian Society of Geomatics on Climate Change and Land degradation, MDS University, Ajmer, Rajasthan, India 3-5 February, 2011
  202. Irfan Rashid, Shakil A **Romshoo**, Akhtar Malik and M Muslim (2010). Remote Sensing For Geospatial Vegetation Type Mapping in Kashmir Himalaya Using Multi-Spectral Satellite Data. 6<sup>th</sup> JK Science

- Congress on the theme “Science, Technology and Sustainable Development” from 29 Nov-1 December, 2010, Srinagar Kashmir, India
203. Nahida Ali, Shakil A **Romshoo** and Irfan Rashid (2010). Geoinformatics for Characterizing and Understanding the Spatio-Temporal Dynamics (1969-2008) of Hokarsar Wetland in Kashmir. 6<sup>th</sup> JK Science Congress on the theme “Science, Technology and Sustainable Development” from 29 Nov-1 December, 2010, Srinagar Kashmir, India
  204. Tanveer A Qadri and Shakil A **Romshoo** (2010). Change Detection of Some Important Lakes of Kashmir Valley Using Multi-Temporal Satellite Data. 6<sup>th</sup> JK Science Congress on the theme “Science, Technology and Sustainable Development” from 29 Nov-1 December, 2010, Srinagar Kashmir, India
  205. Mansha Nisar, Shakil A **Romshoo** and F. A. Lone (2010). A Geospatial Approach to Study the Impact of Land Use/Land Cover Change on the Pollution Status of Anchar Lake. 6<sup>th</sup> JK Science Congress on the theme “Science, Technology and Sustainable Development” from 29 Nov-1 December, 2010, Srinagar Kashmir, India
  206. Bazigha Badar, Shakil A **Romshoo** and M. A. Khan (2010). Modeling Runoff Responses to Changing Land System in a Micro-watershed of Dal Lake Catchment. 6<sup>th</sup> JK Science Congress on the theme “Science, Technology and Sustainable Development” from 29 Nov-1 December, 2010, Srinagar Kashmir, India
  207. Rayees A Pir and Shakil A. **Romshoo** (2010). Integration of Remote Sensing, GIS and Field Data for Geological Mapping: A Study of Sandran Watershed in Kashmir Valley. 6<sup>th</sup> JK Science Congress on the theme “Science, Technology and Sustainable Development” from 29 Nov-1 December, 2010, Srinagar Kashmir, India
  208. Sumira N. Zaz and Shakil A. **Romshoo** (2010). Erosion Assessment of Kashmir Valley Using ICONA Model. 6<sup>th</sup> JK Science Congress on the theme “Science, Technology and Sustainable Development” from 29 Nov-1 December, 2010, Srinagar Kashmir, India
  209. Shakil A **Romshoo** (2010) Modeling the efficacy of Best Management Practices (BMP) for developing sediment control strategies for an urban Himalayan lake. GLP Open Science Meeting 2010-Land Systems, Global Change and Sustainability, 17-19 October, 2010, Tempe, Arizona, USA
  210. Shakil A **Romshoo** (2010). Space-based Information for Assessing the Community Vulnerability to Flood Disasters in Mountainous Himalayas. International Symposium Benefiting from Earth Observation: Bridging the data gap for adaptation to climate change in the Hindu Kush Himalayan region., 4-8 October, 2010, ICIMOD, Kathmandu, Nepal.
  211. Shakil A **Romshoo** (2010). Shakil A **Romshoo** (2010). Assessing the Indicators of Climate Change in Kashmir Himalayas. Proceedings of the National Symposium of the Indian Society of Geomatics on Climate Change and Coastal Ecosystems, Ahmadabad, India 2-4 February, 2010
  212. Shakil Ahmad **Romshoo** and Bazigha Badar (2010). Best Management Practices-an Elixir for Dal Lake Ecosystem Restoration. Proceedings of the National Symposium of the Indian Society of Geomatics on Climate Change and Coastal Ecosystems, Ahmadabad, India 2-4 February, 2010. (**Best Paper Award**)
  213. Shakil A **Romshoo** (2009). Agent Based Modeling Approach to Quantify Human-Environmental Interactions in a Lake System. Proceedings of the International Conference on Sustainability Science in Asia (ICSS-Asia) from 22-24 Nov., 2009 at Bangkok, Thailand
  214. Shakil A. **Romshoo** and Mohammad Muslim (2009). Geospatial Modeling for Assessing the Nutrient load of a Himalayan Lake. Proceedings of the 13<sup>th</sup> World Lake Conference, Wuhan, China 1-5 November, 2009 (**Kasumigaura International Prize**)
  215. Shakil A **Romshoo** (2009). Spatial Data Integration: A Necessity for Enabling Informed Spatial Planning. National Conference on Spatial Planning for Good Governance, 29-30 June, 2009, University of Kashmir, Srinagar (India)
  216. Shakil A **Romshoo** and Riyaz A. Dar (2009). Climate Change and snowmelt runoff in a mountainous Kashmir Himalayan basin. Proceedings of the National Symposium of the Indian Society of Geomatics on impacts of Climate Change in Mountainous Ecosystems, DehraDun, India 4-6 Feb., 2009.
  217. Ambrin Rahim, Shakil A **Romshoo** and Tanveer, Q. (2009). Assessing the impacts of anthropogenic influences on the wetlands of Kashmir. Proceedings of the Indian Society of Geomatics on impacts of Climate Change in Mountainous Ecosystem, Dehradun, India 4-6 Feb., 2009.
  218. Gowhar Mehraj and Shakil A **Romshoo** (2009). Assessing the impacts of Horticulture increase on the Water Quality of Jhelum basin. Proceedings of the Geomatics and impacts of Climate Change in Mountainous Ecosystem, Dehradun, India 4-6 Feb., 2009.
  219. Shakil Ahmad **Romshoo** and Bazigha Badar (2008). Geoinformatic Tools for Comparative Studies of Pollution Analysis in two Micro-watersheds. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008. (**Best Paper Award**)

220. Shakil Ahmad **Romshoo**, A. S. Arya, P. S. Dhinwa and Ajai (2008). Use of C-band Dual Pol SAR Data for Mapping the Indicators of Desertification in the Cold Desert Region of Ladakh. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
221. Shakil Ahmad **Romshoo** (2008). Radar Backscattering from Forest Canopies: Potential for Forest Biophysical Parameter Retrieval. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
222. Shakeel A Bhat and Shakil Ahmad **Romshoo** (2008). Hydrological Characterization of Ungauged Watersheds Using Geomatics. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
223. Sana Khan and Shakil Ahmad **Romshoo** (2008). Comparative Studies on Classification Algorithms for Land Cover Information from the Multi-Spectral Satellite Data. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
224. Mohammed Muslim and Shakil Ahmad **Romshoo** (2008). Geospatial Modeling for Pollution Studies of a Lake. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
225. Sumira Zaz and Shakil Ahmad **Romshoo** (2008). Using Knowledge for Improving Land Cover Classification of Satellite Images. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
226. Tanveer Qadri and Shakil Ahmad **Romshoo** (2008). Automatic Vectorization of Polygon Features from Satellite Images. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
227. Asifa Rashid and Shakil Ahmad **Romshoo** (2008). Watershed Prioritization Using Land Degradation Indicators. Proceedings of the 28<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ahmadabad India, 18-20 December, 2008.
228. Shakil Ahmad **Romshoo** (2008). Geo-information for community based flood vulnerability assessment. Proceedings of the Iranian Space Agency/UN-SPIDER Regional Workshop on Building Upon Regional Space-based Solutions for Disaster Management and Emergency Response, Tehran, Iran, 6-8 October, 2008.
229. Shakil Ahmad **Romshoo** (2008). Changes in Glacier Geometry and Dynamics in Kashmir Himalayas. Proceedings of the University of Nebraska International Workshop on Cryosphere and Hazards for the Hindu Kush Himalaya and Tibetan Plateau, Kathmandu, Nepal 31 March-2 April, 2008.
230. Shakil Ahmad **Romshoo** and Nusrat Hassan (2008). Satellite Remote Sensing for Determining the Changes in the Glacier Geometry and Dynamics. Proceedings of the 4<sup>th</sup> National Symposium of the Indian Society of Geomatics, Bhopal, India, 18-20 February, 2008. **(Best Paper Award)**
231. Shakil A **Romshoo**, Bazigha Badar and Arif Amin (2007). Use of Geoinformatics for assessing the water quantity and quality of Dal Lake. Proceedings of the 10<sup>th</sup> World Lake Conference, Jaipur India, 27-30 October, 2007
232. Bazigha Badar and Shakil A **Romshoo** (2007). Pollution Modeling of Dal Lake using PLOAD Model. Proceedings of the 10<sup>th</sup> World Lake Conference, Jaipur India, 27-30 October, 2007
233. Shakil Ahmad **Romshoo** (2006). Estimation of Forest Biomass in Temperate Forests Using Airborne Multi-frequency Polarimetric SAR Data. Proceedings of the International Society of Photogrammetry and Remote Sensing (ISPRS), Goa India, 27-30 September, 2006. **(Best Paper Award)**
234. Shakeel A. Bhat and Shakil Ahmad **Romshoo** (2006). Impact of Land Cover Changes on the Hydrological Characteristics of Indus Basin. Proceedings of the International Society of Photogrammetry and Remote Sensing (ISPRS), Goa India, 27-30 September, 2006.
235. Ashiq Hussain and Shakil Ahmad **Romshoo** (2006). Modeling land degradation in the Dal Lake Watershed Using Geospatial Tools. Proceedings of the International Society of Photogrammetry and Remote Sensing (ISPRS), Goa India, 27-30 September, 2006.
236. Wang, H., Ouchi, K., Watanabe, M., Shimad, M. Tadono, T, Shakil, A. **Romshoo**, A. Rosenqvist A, M. Matsuoka and Moriyama, T and Urasuka S. (2006) Estimating tree biomass using the empirical relationship between high resolution polarimetric SAR data and forest parameters. Proceedings of the Institute of Electronics, Information and Communication Engineers (IEICE) Technical report SANE2005-12 (2005-05).
237. Shakil Ahmad **Romshoo** (2005). SAR for Live Carbon Estimation: Possibilities and Constraints. Proceedings of the 25<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ranchi India, 6-9 December, 2005.

238. Shakeel Ahmad Bhat and Shakil Ahmad **Romshoo** (2005). Modelling the hydrological process of the Indus Basin as a function of change in land cover. Proceedings of the 25<sup>th</sup> National Symposium of the Indian Society of Remote Sensing, (ISRS), Ranchi India, 6-9 December, 2005.
239. Wang, H., Watanabe, M., Shakil, A. **Romshoo**, M. Shimada, A. Rosenqvist, T. Tadono, M. Matsuoka and Urastuka, S, (2005). Dependence of Forest Biomass on the order of parameter of K-distribution of High Resolution Airborne Polarimetric SAR Images of Forests. Proceedings of the Progress in Electromagnetic Research Symposium, Hangzhou, 23-26 August, 2006.
240. Watanabe, M., Shakil, A. **Romshoo**, M. Shimada, A. Rosenqvist, Kazuo Ohta, T. Tadono, M. Matsuoka and R. Furuta, (2004). Tight Correlations Between Forest Parameters and backscattering Coefficient Derived by the L-band Airborne SAR (PiSAR). Proceedings of the IEEE IGARSS-2004 International Geoscience and Remote Sensing Conference, Alaska, USA, 10-16 July, 2004.
241. Shakil, A. **Romshoo**, Watanabe, M., M. Matsuoka, A. Rosenqvist, M. Shimada and T. Tadono, (2003). Estimating Forest Biophysical Attributes from Airborne Polarimetric SAR Data. Proceedings of the IEEE IGARSS-2003 International Geoscience and Remote Sensing Conference, Toulouse, France, 21-25 July, 2003
242. Shakil A. **Romshoo** and Masanobu Shimada (2003). Monitoring Peatland Forest Ecosystem Dynamics Using L-band SAR Data. Proceedings of the IEEE GRSS, Japan SAR Workshop 2003, Tokyo, Japan, 16-17 January, 2003, pp. 38-44.
243. Watanabe, M, M. Shimada, **Romshoo**, S. A., Rosenqvist, A., Tadono, T., Matsuoka, M., (2003). Analysis of L-band Sigma Naught for Biomass Estimation in Tomakomai Forests. Proceedings of the IEEE GRSS, Japan SAR Workshop 2003, Tokyo, Japan, 16-17 January, 2003, pp. 33-37.
244. Shakil A. **Romshoo**, Masanobu Shimada and Tomotsu Igarashi (2002). Monitoring Peatland Ecosystem Dynamics Using Multi-sensor Satellite Data, 34<sup>th</sup> COPSAR Scientific Assembly-the Second World Space Congress, Houston, USA, 9-19 October 2002.
245. Shakil A. **Romshoo**, Masanobu Shimada and Tomotsu Igarashi (2002). Peat land Ecosystem Characterization Employing L-band SAR, Proceedings of the IEEE IGARSS-2002 International Geoscience and Remote Sensing Conference, Toronto, Canada, 23-28 June 2002.
246. Shakil A. **Romshoo**, T. Oki and Katumi Mushiake (2002). C-band Radar for Soil Moisture Estimation Under Agricultural Conditions, Proceedings of the IEEE IGARSS-2002 International Geoscience and Remote Sensing Conference, Toronto, Canada, 23-28 June 2002.
247. M. Shimada, T. Tadono, A. Rosenqvist, and **Romshoo** Shakil 2002. Incidence Angle Dependence of the L-band Pol-In-SAR Sensitivity at the Forested Region, Proceedings of the IEEE IGARSS-2002 International Geoscience and Remote Sensing Conference, Toronto, Canada, 23-28 June 2002.
248. Shakil A. **Romshoo** and Masanobu Shimada (2001). Employing SAR for Biomass Retrieval From Tropical Forests of Southeast Asia, Proceedings of the 22<sup>nd</sup> ACRS-2001 Asian Conference on Remote Sensing, Singapore, 2-7 November 2001, pp. 627-632, Vol. 1.
249. Shakil A. **Romshoo** (2001). Multi-frequency Radar Backscattering From Wheat Canopy in the Light of Theory and Experiments, Proceedings of the IEEE IGARSS-2001 International Geoscience and Remote Sensing Conference, Sydney, Australia, 4-7 July 2001.
250. Shakil A. **Romshoo**, Masanobu Shimada and Tomotsu Igarashi (2001). Radar Backscattering from Tropical Forest Canopies: Sensitivity to canopy structure and biomass, proceedings of the Japan Soc. of Photogrammetry and Remote Sensing JSPRS-2001, Tokyo Japan, 21-22 June, 2001, pp. 43-48
251. Shakil A. **Romshoo**, T. Oki and Katumi Mushiake (2001). Ground Based Multi-frequency Radar System (L-, C-, and X-bands) for Soil Moisture Determination under Wheat Canopy, Proceedings of the ICORG-2000, ISPRS International Conference on Remote Sensing and GIS/GPS, Hyderabad, India, 2-7 Feb. 2001
252. Shakil A. **Romshoo**, T. Nakaegawa, T. Oki and Katumi Mushiake (2000). Multi-Polarized and Multi-Angle Radar System for Soil Moisture Determination Under Bare Soil Conditions, Proceedings of the 21<sup>st</sup> Asian Remote Sensing Conference, Taipie, Taiwan, 4-8 Dec., 2000, Vol. 2, pp. 732-737.
253. Shakil A. **Romshoo**, Masahiro Koike, S. Hironaka, T. Nakaegawa, and Katumi Mushiake (2000). Active Microwave Remote Sensing for Soil Moisture Sensing: An Analysis of C-band Scatterometer Results, Proceedings of the 55<sup>th</sup> Japan Society of Civil Engineering (JSCE) Annual Conference, Sendai, Japan, 21-23 September, 2000.
254. Shakil A. **Romshoo**, D. Yang, T. Oki and Katumi Mushiake (2000). Soil Moisture Estimation Using Microwave Remote Sensing Techniques and simulation Modelling, Proceedings of the 2000 Annual Conference, Japan Society of Hydrology and Water Resources, Kyoto, Japan, 6-8 August, 2000, pp. 146-147.
255. Shakil A. **Romshoo**, T. Nakaegawa, T. Oki and Katumi Mushiake (2000). Geostatistical Approaches to Characterize the Soil Moisture Patterns Using Remote Sensing Data and Field Measurements, Proceedings of the 2<sup>nd</sup> International Summer Symposium, Japan Society of Civil Engineering (JSCE) Conference, Tokyo, Japan, 28 July, 2000, pp. 197-200.

256. Shakil A. **Romshoo**, T. Nakaegawa, T. Oki and Katumi Mushiake (2000). Understanding the Influences of Surface and Vegetation Parameters on Soil Moisture Scattering in the Light of Theory and Experimental Data. 2000 Western Pacific American Geophysical Union (AGU) Meeting, Tokyo, Japan, Vol. 81, No. 22, May 30, 2000, pp. WP41
257. Shakil A. **Romshoo**, T. Nakaegawa, T. Oki and Katumi Mushiake (2000). Estimation of Soil Moisture Using Space-borne SAR Data and Scattering Models, proceedings of the 28<sup>th</sup> Remote Sensing Society of Japan Conference, Tsukuba, Tokyo, Japan, 19-21 May, 2000, pp. 59-60.
258. Shakil A. **Romshoo**, Masahiro Koike, T. Nakaegawa and Katumi Mushiake (1999). Soil Moisture Determination Under Different Field Conditions using a Scatterometer and Space Borne Systems, Proceedings of the 20<sup>th</sup> Asian Remote Sensing Conference, Hong Kong, China, 22-25 Nov. 1999, Vol. 2, pp. 921-926
259. Shakil A. **Romshoo**, Masahiro Koike, S. Hironaka, T. Nakaegawa and Katumi Mushiake (1999). Monitoring of Paddy Crop Growth with Active Microwave Radar- Possibilities and Difficulties. Proceedings of the 26<sup>th</sup> Japanese Society of Remote Sensing and Photogrammetry Conference, Chiba University, Tokyo, 19-21 May, 1999, pp. 29-32

**Invited Presentations/Talks/Keynote speeches:**

260. Shakil A. **Romshoo** (2021). Building a Disaster Conscious Society in Jammu and Kashmir. National Workshop on Disaster Risk Reduction for a Safer Society in the Union Territory of Jammu and Kashmir organized by Department of Geography and Disaster Management, University of Kashmir held on 15 March, 2021 (**Keynote speech**)
261. Shakil A. **Romshoo** (2021). Importance of Earth observation Data and Global Databases for Environmental Studies. National Webinar organized by Bemina Degree College, Srinagar in collaboration with Open Knowledge Foundation, UK on the theme “Open Data Day -2021” held on 8 March, 2021 (**Invited talk**)
262. Shakil A. **Romshoo** (2020). Point and Non-point sources of pollution to the Dal Lake, Kashmir Himalaya, International Webinar on “Past, Present and Future of Dal Lake” by the People’s Environmental Council in collaboration with the University of Kashmir, 19 July, 2020 (**Keynote Speech**)
263. Shakil A. **Romshoo** (2020). Air Quality Improvement in the UIB During COVID-19 and its likely Impacts on the melting cryosphere. Upper Indus Basin Network (UIBN) Regional Strategic Committee meeting, ICIMOD, Kathmandu 25 June, 2020
264. Shakil A. **Romshoo** (2020). COVID-19 and Kashmir Environment: Has it made any lasting Impact. International Webinar on ‘COVID-19 and Environmental Conditions’ organized People Environmental Council (PEC) on 21 June, 2020.
265. Shakil A. **Romshoo** (2020). Environmental Degradation and Human Health: COVID-19 Angle. International Webinar on “Environmental Protection for Animal and Human Health” organized by the Sheri-Kashmir University of Agricultural Sciences and Technology-Kashmir (SKUAST-K) on the eve of the World Veterinary Day (WVD) on 26 April, 2020 (**Keynote Speech**)
266. Shakil Ahmad **Romshoo** (2020). India-Pakistan Dialogue under Chao Track-II from 21-22 January, 2020 at Bangkok, Thailand
267. Shakil Ahmad **Romshoo** (2020). Panelist of the Plenary session on “Resource Mapping: Natural, Physical and People” at the Annual Conference 2020 of the Club of Rome (CoR) on Creating a Sustainable Future for Jammu & Kashmir and Ladakh: New opportunities for an inclusive and green development, 16-17 January 2020, Main Conference Hall, WWF-INDIA, Max Mueller Marg, New Delhi
268. Shakil Ahmad **Romshoo** (2019). The melting Cryosphere and the Future Projections in the NW Himalaya. 1-day brainstorming workshop on “Asian High mountain (Third Pole) Weather and Climate Monitoring Services” at New Delhi, India on 30 October, 2019
269. Shakil Ahmad **Romshoo** (2019). IWT: Addressing Emerging and Common Concerns Through Cooperation. International Seminar on “Frameworks For Shared Indus/Transboundary waters: A Multidisciplinary Dialogue” City University of Hong Kong, China from 26-27 July, 2019
270. Shakil Ahmad **Romshoo** (2019). Understanding the implications of Climate change on Cryosphere. ATREE Capacity building and training programme in collaboration with the Department of Botany, University of Kashmir titled “Adapting to Climate Change: A Focus on Biodiversity in the Western Himalayas” held at the University of Kashmir, Srinagar campus from June 24<sup>th</sup> to July 6<sup>th</sup>, 2019.
271. Shakil Ahmad **Romshoo** (2019). Understanding the implications of Climate change on Water Resources. International Conference on Climate Change, Sheri-Kashmir University of Agriculture Sciences and Technology (SKUAST), Kashmir, Srinagar Kashmir India from 13 March, 2019

272. Shakil Ahmad **Romshoo** (2018). Indus Basin: Challenges and Opportunities. 3rd Indus basin Knowledge Forum on the theme “Managing Systems Under Stress: Science for Solutions in the Indus Basin”. 31 May to 3 June, 2018, Luxemburg, Austria
273. Shakil A. Romshoo (2017). Hydrological and Glacial Changes in Indus Basin. Workshop on Transboundary Water Governance and Water Diploma in India and Pakistan at Chandigarh India from 27–28th February, 2017
274. Shakil A **Romshoo** (2017). Climate Change Impacts on Water Resources in the Indus Basin. during National Conference on Geoinformatics for Natural Resources Management, JMI New Delhi from 7-8 February, 2017.
275. Shakil A **Romshoo** (2016). Emission of BC and other SLCPs and impacts on regional climate and cryosphere. International Conference on Mobilizing University Research for Tackling Water, Climate Change and Adaptation Challenges in the HKH Region during Himalayan University Consortium Meeting, New Delhi from 24-26 October, 2016.
276. Shakil A **Romshoo** (2015). Upper Indus Basin under Change. International Workshop on Sustainable Water Resources Management: Perspectives from Europe and South Asia. Organized by the German House for Research and Innovation at New Delhi from 28-29 September, 2015
277. Shakil A **Romshoo** (2015). 2014 Extreme Floods in Kashmir: Genesis and Magnitude. India Water Week, New Delhi, India on 17 January, 2015
278. Shakil A **Romshoo** (2014). Indus River Basin: Need for Joint Research Project. Indo-Pakistan Water Dialogue held under aegis of the Atlantic Council, USA at Lahore, Pakistan from 20-21 August, 2014
279. Shakil A **Romshoo** (2014). Assessing the impacts of climate change on food security of Kashmir valley. Abstract Proceedings of the 100<sup>th</sup> Indian Science Congress held at the Calcutta University, Kolkata, from 3-7 January 2013.
280. Shakil A **Romshoo** (2012). Indus water system under threat: a case study of Jhelum. Symposium on Dying rivers and Living rivers held at India International Centre (IIC), New Delhi on 25 July, 2012.
281. Shakil A **Romshoo** (2011). Geoinformatics for Sustainable Natural Resource Management. Indian Society of Geomatics (ISG) Regional Workshop on “Geomatics for G-Governance” held at the University of Kashmir from 13-14 September, 2011, Srinagar (India). (**keynote Speech**)
282. Shakil A **Romshoo** (2011). The Environmental Scenario of J&K State under the Changing Climate. National Workshop on “Environmental Scenario of Kashmir” organized by the Kashmir Education, Culture and Science Society, 15 May, 2011, New Delhi, India. (**keynote Speech**)
283. Shakil A **Romshoo** (2010). Sediment Control Strategies for Improving Water Quality of Dal Lake. National Symposium of the Central Groundwater Board (CGWB), Srinagar Kashmir, 25 March, 2010.
284. Shakil A **Romshoo** (2009). Climate Change Scenario in J&K State and the Road Ahead: Integrated analysis of time series of hydro-meteorological and satellite data. Proceedings of the National Symposium of the Indian Association of Hydrologists on Climate Change Impacts on Water Resources, NIH, Roorkee, Uttarakhand, India 17-18 Nov., 2009 (**Key note speech**)
285. Shakil A. **Romshoo** (2003). Carbon Accounting: What Does it Take and Where do we Stand? NASDA-NASA Joint Symposium on Space Platforms for Water and Climate Observations, Awaji-island, Kobe, Japan, 12-14 March, 2003
286. Shakil A. **Romshoo** (2002). Temporal Monitoring of the Hydrological and Vegetation Changes in Tropical Peatland Ecosystems Using Remote Sensing. AGU Fall Meeting, 2002, Moscone Convention Center, San Francisco, USA, 6-10 December, 2002.

### Popular Articles on Scientific themes

I have written more than a scores of popular articles on issues of scientific, social and environmental importance in the daily/weekly, national and local newspapers, Magazines and Newsletters in state and outside. A list of some of the articles are provided below:

S. No.	Date	Title	Name of Magazine/ Newspaper
1	30 April, 2001	Pooling Resources for Better Environment: A Vision of the Future	Greater Kashmir
2	15 Jun, 2009	Climate Change: The Risk and The Remedy	Eco Plus (GK)
3	7 Jul., 2009	Diagnosing the disease: Manasbal Lake Pollution	Eco Plus (GK)



4	Dec, 2009	Data Constraints in Precisely Quantifying the Indicators and Impacts of Climate Change: with special reference to snow, glaciers, hydrometeorology and wetlands.	the Indian Society of Geomatics Newsletter, Vol. 15 (1-4): 30-45,
5	23 Dec., 2009	Participatory Dal Lake Restoration and Conservation Model	GK Eco Plus
6	14 Dec., 2010	Academia and the Peace Process	Greater Kashmir
7	7 May, 2010	What does Copenhagen Accord mean for this Himalayan State	Greater Kashmir
8	12 Jun, 2013	Vision for Srinagar	Greater Kashmir
10	14 Mar, 2015	The 2014 Kashmir Flood: The Extreme of the Extremes	GK Magazine
11	7 Sept., 2015	Nothing to Celebrate About: Introspection of 2014 Kashmir Floods	Greater Kashmir
12	2 Oct., 2016	Why abrogation of the Indus Water Treaty is not in India's interest	The Economic Times
13	4 Oct., 2016	Standing by the Indus Water Treaty Is in India's Best Interests	The Wire
14	29 Apr, 2017	Before It Rains Again	KashmirInk
15	30 July, 2018	Opinion: Focus on small hydropower in Jammu & Kashmir	TheThirdPolet.net
16	7 Aug., 2018	The river and the valley: Tapping hydropower investment opportunity in the upper Indus basin in Jammu and Kashmir	GovernanceNow
17	Dec, 2018	Geomatics Applications for Himalayan Region. Special issue	Indian Society of Geomatics, ISRO, Newsletter, Vol. 24 (3-4)
18	Aug., 2020	Informing Disaster Risk Reduction Strategy in the Mountainous Jammu, Kashmir and Ladakh regions	Kashmir Observer

**Internet Search Engine Keyword:** Shakil Romshoo

**Researchgate webpage:** [https://www.researchgate.net/profile/Shakil\\_Romshoo/](https://www.researchgate.net/profile/Shakil_Romshoo/)

My researchgate page has RG score of 36.40, research score of ~3850 with ~123,000 reads/downloads and 227 publications by ending July, 2021.

**Google Scholar webpage:** [http://scholar.google.co.in/citations?user=6qNj3\\_0AAAAJ&hl=en](http://scholar.google.co.in/citations?user=6qNj3_0AAAAJ&hl=en)

My publications have Citation Index of ~3100, *h-index* of 31, *i20-index* of 36 and *i10-index* of 81 as recorded by the Google Scholar by ending July, 2021.

**Slideshare webpage:** <http://www.slideshare.net/ShakilRomshoo>

**Linkedin webpage:** <https://www.linkedin.com/in/shakilromshoo-47959713/>



Name, Designation and Signature

**Shakil Ahmad Romshoo,**

**Vice Chancellor** [11]  
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