

SHRABAN SARKAR

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ACADEMIC QUALIFICATIONS

Doctor of Philosophy (Ph.D.) in Geography **2014**

Department of Geography, Banaras Hindu University, Varanasi

- **Thesis Title:** Landslide Susceptibility Assessment using GIS Modelling in Kalimpong Hills, West Bengal

Master of Arts (M.A.) in Geography **2008**

Department of Geography, Banaras Hindu University, Varanasi

- **Specialization:** Cartography and Remote Sensing
- **Dissertation Title:** Remote Sensing in Land Use/Land Cover Mapping in Part of Singrauli Basin (SOI Sheet No. 63L/12)

CERTIFICATE / TRAINING COURSES

Certificate Course **2012**

Statistical Methods

Department of Statistics, Banaras Hindu University, Varanasi

Training Course **2011**

Remote Sensing and GIS - Technology and Applications

National Remote Sensing Centre, Hyderabad

ACADEMIC AWARD

CSIR-UGC NET, Junior Research Fellowship **2010**

RESEARCH INTERESTS

Mountain Geomorphology, Slope Stability Analysis, Remote Sensing, Geographic Information Systems, Geostatistical Modelling

PUBLICATIONS

Published Papers in Peer Reviewed Journals

1. **Sarkar, S.,** Roy, A.K., Raha, P., 2016. Deterministic approach for susceptibility assessment of shallow debris slide in the Darjeeling Himalayas, India. *Catena* 142, 36-46. <http://dx.doi.org/10.1016/j.catena.2016.02.009>. **[Impact Factor: 3.191]**
2. Raju, K.N.P., Pandey, M.K., **Sarkar, S.,** 2014. A note on boundaries in atlas maps. *Journal of the Geological Society of India* 83(5), 563-566. <http://dx.doi.org/10.1007/s12594-014-0084-4>. **[Impact Factor: 0.479]**
3. **Sarkar, S.,** Roy, A.K., Martha, T.R., 2013. Soil depth estimation through soil-landscape modelling using regression kriging in a Himalayan terrain. *International Journal of Geographical Information Science* 27(12), 2436-2454. <http://dx.doi.org/10.1080/13658816.2013.814780>. **[Impact Factor: 2.502]**
4. **Sarkar, S.,** Roy, A.K., Martha, T.R., 2013. Landslide susceptibility assessment using information value method in parts of the Darjeeling Himalayas. *Journal of the Geological Society of India* 82(4), 351-362. <http://dx.doi.org/10.1007/s12594-013-0162-z>. **[Impact Factor: 0.479]**

Chapters in Books

1. **Sarkar, S.,** 2018. Landslide risk assessment in parts of the Darjeeling Himalayas, India, in: Samui, P., Kim, D., Ghosh, C. (Eds.), *Integrating disaster science and management - global case studies in mitigation and recovery*. Elsevier, Amsterdam, pp. 99-108. <http://dx.doi.org/10.1016/B978-0-12-812056-9.00007-5>.
2. Raju, K.N.P., **Sarkar, S.,** Pandey, M.K., 2014. Indus and Ganga river basins in India: surface water potentials, in: Vaidyanadhan, R. (Ed.), *Rejuvenation of surface water resources of India: potential, problems and prospects*. Geological Society of India, Bengaluru, Spec. Pub. (3), pp. 43-53. <http://dx.doi.org/10.17491/cgsi/2014/62876>.
3. Raju, K.N.P., **Sarkar, S.,** Pandey, M.K., Keshari, S., Vishwakarma, M., Shakya, C., 2014. Surface water resources and river systems of Andhra Pradesh, in: Vaidyanadhan, R (Ed.), *Rejuvenation of surface water resources of India: potential, problems and prospects*. Geological Society of India, Bengaluru, Spec. Pub. (3), pp. 92-98, <http://dx.doi.org/10.17491/cgsi/2014/62885>.

COMPUTER SKILLS

1. Image processing software: ERDAS Imagine
2. GIS software: ArcGIS, ArcView, SAGA GIS, AutoCAD
3. Programming: LaTeX, R
4. Statistical Software: SPSS

CONFERENCE PRESENTATIONS

1. **Sarkar, S.**, 2018. Statistical approach for landslide hazard and risk assessment in Darjeeling Himalayas, National Seminar on Disaster Management with focus on Sub-Himalayan North Bengal, Organized by Department of Geography and Applied Geography, University of North Bengal, Darjeeling; March 23-24.
2. **Sarkar, S.**, 2018. An evaluation of landslide risk in Darjeeling Himalayas, 4th International Seminar on Population, Urbanization and Environment: Contemporary Issues and Challenges, Organized by Department of Geography, University of Gour Banga, Malda; March 21-22.
3. **Sarkar, S.**, 2018. Fine resolution soil mapping using geostatistical technique in a Himalayan terrain, National Seminar on Perspectives on Land, Water and Population: Issues and Challenges, Organized by Department of Geography, Banaras Hindu University, Varanasi; February 26-28.
4. **Sarkar, S.**, 2018. Landslide event of 1st July 2015 in the Darjeeling Himalayas, India—an investigation through deterministic approach, XXIX Biennial Conference of North East India Geographical Society (NEIGS) cum XI International Geographical Union (IGU) Commission Seminar on Environment and Sustainable Livelihood, Organized by Department of Geography, B. Borooah College, Guwahati; February 08-10.
5. Roy, A.K., **Sarkar, S.**, Singh, S.K., 2013. Population and economics of urban centres situated along the national river Ganga, National Seminar on Plains of the Ganga: Problems and Prospects, Organized by Department of Geography, Banaras Hindu University, Varanasi; January 28-30.
6. Roy, A.K., **Sarkar, S.**, Singh, S.K., 2012. Urban centres on the national river Ganga: a profile, XXXIV Indian Geography Congress (NAGI), Organized by Department of Geography, Patna University, Patna; November 02-04.
7. Roy, A.K., **Sarkar, S.**, 2011. Accuracy assessment of CARTOSAT DEM through valley orientation, 33rd Indian Geography Congress (NAGI), Organized by Department of Geography, The University of Burdwan, Burdwan; November 11-13.

8. **Sarkar, S.**, 2011. Digital photogrammetry and its implication on landslide study, National Seminar on Recent Advances in the Development of Geographical Knowledge and its Interdisciplinary Association with Sciences, Organized by Department of Geography, Banaras Hindu University, Varanasi; November 03-04.
9. **Sarkar, S.**, 2011. Role of remote sensing and GIS in hazard monitoring and sustainable development, International Seminar on Technology, Energy and Sustainable Rural Environment, Organized by Department of Geography, Banaras Hindu University, Varanasi; February 23-25.
10. **Sarkar, S.**, 2010. Neogeomorphological studies in Kalingpong area, West Bengal, National Seminar on Geo Hazards in Darjeeling Sub-Himalaya, West Bengal, Organized by Department of Geography and Applied Geography, University of North Bengal, Darjeeling; March 06-07.
11. **Sarkar, S.**, 2010. Population pressure, anthropogenic activities and environmental problems in mountain region (Darjeeling Himalaya, India), National Seminar on Population, Development and Environment: Issues and Challenges, Organized by Department of Geography, Banaras Hindu University, Varanasi; February 18-20.

WORKSHOP PARTICIPATIONS

1. 3rd National Workshop on Statistical Methods and R Programming, Organized by Agricultural and Ecological Research Unit, Indian Statistical Institute, Kolkata and Department of Mathematics, Institute of Chemical Technology, Mumbai; 10-15 February, 2016.
2. Scientific Writing, Sponsored by IIPS Alumni Association (IIPSAA) and organized at the International Institute for Population Sciences (IIPS), Mumbai; 11-15 December, 2015.

PROFESSIONAL MEMBERSHIPS

1. Life Member, Himalayan Geology
2. Life Member, Indian Society of Remote Sensing
3. Life Member, Geological Society of India

REVIEWER OF SCIENTIFIC JOURNALS

1. Natural Hazards, Springer
2. Asian Geographer, Taylor & Francis
3. HKIE Transactions, Taylor & Francis