

Department of Geography

Chandidas Mahavidyalaya

Research Activities:

Journal Articles by Dr. Kaustuv Mukherjee:

1. Saha, S., Kundu, B., Saha, A., Mukherjee, K., Pradhan, B. (Dec. 10, 2022). Manifesting deep learning algorithms for developing drought vulnerability index in monsoon climate dominant region of West Bengal, India. *Theoretical and Applied Climatology (Springer)*, <https://doi.org/10.1007/s00704-022-04300-4> [IF: 3.410] ISSN-1434-4483, (Scopus)
2. Alkindi, K.M., Mukherjee, K., Pandey, M., Arora, A., Janizadeh, S., Pham, Q.B., Anh, D.T., Kourosh Ahmadi, K. (2021). Prediction of groundwater nitrate concentration in a semiarid region using hybrid Bayesian artificial intelligence approaches. *Environmental Science and Pollution Research (Springer)*, <https://doi.org/10.1007/s11356-021-17224-9> [IF: 5.190] ISSN- 1614-7499, (Scopus)
3. Arabameri, A., Santosh, M., Rezaie, F., Saha, S., Coastache, R., Roy, J., Mukherjee, K., John Tiefenbacher, J., moayed, H. (2021). Application of novel ensemble models and k-fold CV approaches for Land subsidence susceptibility modelling. *Stochastic Environmental Research and Risk Assessment (Springer)*, <https://doi.org/10.1007/s00477-021-02036-7> [IF: 3.821] ISSN-1436-3259, (Scopus)
4. Saha, S., Kundu, B., Paul, G.C., Mukherjee, K., Pradhan, B., Dikshit, A., Maulud, K.N.A., Alamri, A.M. (2021). Spatial assessment of drought vulnerability using fuzzy-analytical hierarchical process: a case study at the Indian state of Odisha. *Geomatics, Natural Hazards and Risk (Taylor & Francis)*, 12:1, 123-153, <https://doi.org/10.1080/19475705.2020.1861114> [IF: 3.922] ISSN- 1947-5713, (Scopus)
5. Pham, Q. B., Mukherjee, K., Norouzi, A., Linh, N.T.T., Janizadeh, S., Ahmadi, K., Cerdà, A., Doan, T.N.C., Anh, D.T. (2020). Head-cut gully erosion susceptibility modelling based on ensemble Random Forest with oblique decision trees in Fareghan watershed, Iran. *Geomatics, Natural Hazards and Risk (Taylor & Francis)*, 11:1, 2385-2410, <https://doi.org/10.1080/19475705.2020.1837968> [IF: 3.922] ISSN- 1947-5713, (Scopus)
6. Arabameri, A., Saha, S., Mukherjee, K., Blaschke, T., Chen, W., Ngo, P.T.T., Band, S.S. (2020). Modeling Spatial Flood using Novel Ensemble Artificial Intelligence Approaches in Northern Iran. *Remote Sensing (MDPI)*, 12 (20), 3423, <https://doi.org/10.3390/rs12203423> [IF: 4.848] ISSN-2072-4292, (Scopus)
7. Mukherjee, K., and Pal, S. (2020). Hydrological and landscape dynamics of floodplain wetlands of the Diara region, Eastern India. *Ecological Indicators (Elsevier)*, 121: 106961, <https://doi.org/10.1016/j.ecolind.2020.106961> [IF: 6.263]. ISSN- 1470-160X, (Scopus)

8. S. Band, S., Janizadeh, S., Saha, S., Mukherjee, K., Bozchaloei, S.K., Cerdà, A., Shokri, M., Mosavi, A. (2020). Evaluating the Efficiency of Different Regression, Decision Tree, and Bayesian Machine Learning Algorithms in Spatial Piping Erosion Susceptibility Using ALOS/PALSAR Data. *Land (MDPI)*, 9: 346, <https://doi.org/10.3390/land9100346> [IF: 3.398] ISSN - 2073-445X, (Scopus)

9. Mukherjee, K. (2020). Wetland habitat stability assessment in hydro-geomorphological (HGM) and surface water availability (SWA) conditions in a lower Gangetic floodplain region of Eastern India. *Ecological Indicators (Elsevier)*, 119: 106842, <https://doi.org/10.1016/j.ecolind.2020.106842> [IF: 6.263] ISSN- 1470-160X, (Scopus)

10. Saha, S., Saha, M., Mukherjee, K., Arabameri, A., Ngo, P. T. T., & Paul, G. C. (2020). Predicting the deforestation probability using the binary logistic regression, random forest, ensemble rotational forest and REPTree: A case study at the Gumani River Basin, India. *Science of The Total Environment (Elsevier)*, 139197, <https://doi.org/10.1016/j.scitotenv.2020.139197>. [IF: 10.754] ISSN- 0048-9697 (Scopus)

11. Mukherjee, K. (2019). Control of physical background on distribution of wetlands in Diara Region, Eastern India. *Spatial Information Research (Springer)*, 27, 373-384. DOI: 10.1007/s41324-019-00244-6. ISSN-2366-3294, (Scopus)

12. Mukherjee, K., Pal, S., and Mukhopadhyay, M. (2018). Impact of flood and seasonality on wetland changing trends in the Diara region of West Bengal, India. *Spatial Information Research (Springer)*, 26(4), 357-367. DOI: 10.1007/s41324-018-0177-z. ISSN-2366-3294, (Scopus)

Journal Articles by Prof. Indrajit Mandal:

Sl. No.	Author	Title of the Paper	Title of the Journal	Year	ISBN/ISSN
1	Indrajit Mandal	Understanding the Air Pollution of Raipur City, Chhattisgarh, India: A Geo-statistical Approach	International Journal of Law, Education, Social and Sports Studies (IJLESS)	Vol.3.Issue.3.2016 (July-Sept.)	ISSN:2455-0418 (Print), 2394-9724 (online)
2	Indrajit Mandal	Power Supply of Raipur City in Chhattisgarh, India	International Journal of Law, Education, Social and Sports Studies (IJLESS)	Vol.2.Issue.3.2015 (July-Sept)	ISSN:2394-9724

Journal Articles by Prof. Manabendra Roy:

Sl. No	Author	Title of the Article	Title of the Journal	ISSN	Year
1	<i>Manabendra Roy</i>	Functional Influence of Urban Centers, their Growth and Potentialities: An Approach of Rural Development in Purba Bardhaman District	IASSI Quarterly: Urbanization and Migration	Vol.39. Nov3. July-Sept. 2020 ISSN 0970-9061	2020

Book Chapter by Prof. Indrajit Mandal:

Sl. No.	Author	Title of the Chapter	Title of the Book	ISBN	Year
1	Indrajit Mandal	Air Pollution of Raipur City, Chhattisgarh, India.	Issues in Sustainable Development	978-93-91139-19-3	March, 2021
2	Indrajit Mandal	Water Pollution of Raipur City (C.G.)	Environment and Development The Challenges of Millennium	978-93-80736-09-9	March, 2016
3	Indrajit Mandal	Noise pollution of Raipur City (C.G.)	Globalization, Environment and Sustainable Development	978-93-83458-03-5	August, 2015

Book Chapter by Prof. Manabendra Roy:

Sl. No	Author	Title of the Book Chapter	Title of the Book	ISBN/ISSN	Year	Publisher
1	<i>Manabendra Roy</i>	Sand Mining & Environmental Degradation: A Case Study	Development & Politics In India	ISBN: 978-93-82094-34-0	2015	Chandidas Mahavidyalaya