7. References

1. Abuzied, S., Yuan, M., Ibrahim, S., Kaiser, M., & Saleem, T. (2016). Geospatial risk assessment of flash floods in Nuweiba area, Egypt. *Journal of Arid Environments*, *133*, 54-72.
2. Adegoke, C. W., & Sojobi, A. O. (2015). Climate change impact on infrastructure in Osogbo metropolis, south-west Nigeria. *Journal of Emerging Trends in Engineering and Applied Sciences*, *6*(3), 156-165.
3. Ågren, A. M., Lidberg, W., Strömgren, M., Ogilvie, J., & Arp, P. A. (2014). Evaluating digital terrain indices for soil wetness mapping–a Swedish case study. *Hydrology and Earth System Sciences*, *18*(9), 3623-3634.
4. Ahmed, B., Kamruzzaman, M. D., Zhu, X., Rahman, M., & Choi, K. (2013). Simulating land cover changes and their impacts on land surface temperature in Dhaka, Bangladesh. *Remote Sensing*, *5*(11), 5969-5998.
5. Ahmed, S. A., Chandrashekarappa, K. N., Raj, S. K., Nischitha, V., & Kavitha, G. (2010). Evaluation of morphometric parameters derived from ASTER and SRTM DEM—a study on Bandihole sub-watershed basin in Karnataka. *Journal of the Indian society of remote sensing*, *38*(2), 227-238.
6. Akinsanola, A. A., & Ogunjobi, K. O. (2014). Analysis of rainfall and temperature variability over Nigeria. *Global Journal of Human Social Sciences: Geography & Environmental GeoSciences*, *14*(3), 1-18.
7. Al-Adamat, R. (2008). GIS as a decision support system for siting water harvesting ponds in the Basalt Aquifer/NE Jordan. *Journal of Environmental Assessment Policy and Management*, *10*(02), 189-206.
8. Altaf, F., Meraj, G., & Romshoo, S. A. (2013). Morphometric analysis to infer hydrological behaviour of Lidder watershed, Western Himalaya, India. *Geography Journal*, *2013*.
9. Amani, M., Salehi, B., Mahdavi, S., Granger, J., & Brisco, B. (2017). Wetland classification in Newfoundland and Labrador using multi-source SAR and optical data integration. *GIScience & Remote Sensing*, *54*(6), 779-796.
10. Ammar, A., Riksen, M., Ouessar, M., & Ritsema, C. (2016). Identification of suitable sites for rainwater harvesting structures in arid and semi-arid regions: A review. *International Soil and Water Conservation Research*, *4*(2), 108-120.
11. Ammar, A., Riksen, M., Ouessar, M., & Ritsema, C. (2016). Identification of suitable sites for rainwater harvesting structures in arid and semi-arid regions: A review. *International Soil and Water Conservation Research*, *4*(2), 108-120.
12. Asselman, N., Maat, J. T., Wit, A. D., Verhoeven, G., Frazão, S., Velickovic, M., & Bates, P. (2009). Flood inundation modelling. *Executive summary, Report*, (T08-08), 01.
13. Avdan, U., & Jovanovska, G. (2016). Algorithm for automated mapping of land surface temperature using LANDSAT 8 satellite data. *Journal of sensors*, *2016*.
14. Awange, J. L., & Kiema, J. B. K. (2013). Optical Remote Sensing. In *Environmental Geoinformatics* (pp. 119-132). Springer, Berlin, Heidelberg.

15. Bannari, A., Ghadeer, A., El-Battay, A., Hameed, N. A., & Rouai, M. (2017). Detection of areas associated with flash floods and erosion caused by rainfall storm using topographic attributes, hydrologic indices, and GIS. In *Global Changes and Natural Disaster Management: Geo-information Technologies* (pp. 155-174). Springer, Cham.
16. Barsi, J. A., Schott, J. R., Hook, S. J., Raqueno, N. G., Markham, B. L., & Radocinski, R. G. (2014). Landsat-8 thermal infrared sensor (TIRS) vicarious radiometric calibration. *Remote Sensing*, *6*(11), 11607-11626.
17. Belgiu, M., & Csillik, O. (2018). Sentinel-2 cropland mapping using pixel-based and object-based time-weighted dynamic time warping analysis. *Remote sensing of environment*, *204*, 509-523.
18. Beven, K. J., & Kirkby, M. J. (1979). A physically based, variable contributing area model of basin hydrology/Un modèle à base physique de zone d'appel variable de l'hydrologie du bassin versant. *Hydrological Sciences Journal*, *24*(1), 43-69.
19. Bhat, M. S., Alam, A., Ahmad, S., Farooq, H., & Ahmad, B. (2019). Flood hazard assessment of upper Jhelum basin using morphometric parameters. *Environmental Earth Sciences*, *78*(2), 54.
20. Bhatt, S., & Ahmed, S. A. (2014). Morphometric analysis to determine floods in the Upper Krishna basin using Cartosat DEM. *Geocarto international*, *29*(8), 878-894.
21. Bisht, S., Chaudhry, S., Sharma, S., & Soni, S. (2018). Assessment of flash flood vulnerability zonation through Geospatial technique in high altitude Himalayan watershed, Himachal Pradesh India. *Remote Sensing Applications: Society and Environment*, *12*, 35-47.
22. Bitterman, P., Tate, E., Van Meter, K. J., & Basu, N. B. (2016). Water security and rainwater harvesting: A conceptual framework and candidate indicators. *Applied Geography*, *76*, 75-84.
23. Bjelanovic, I. (2016). Predicting forest productivity using Wet Areas Mapping and other remote sensed environmental data.
24. Breiman, L. (2001). Random forests. *Machine learning*, *45*(1), 5-32.
25. Bruniquel, J., & Lopes, A. (1997). Multi-variate optimal speckle reduction in SAR imagery. *International Journal of Remote Sensing*, *18*(3), 603–627. https://doi.org/10.1080/014311697218962
26. Burnside, N., Smith, R., & Waite, S. (2002). Habitat suitability modelling for calcareous grassland restoration on the South Downs, United Kingdom. Journal of Environmental Management, 65(2), 209e221.
27. Burrough, P. A., van Gaans, P. F., & MacMillan, R. A. (2000). High-resolution landform classification using fuzzy k-means. *Fuzzy sets and systems*, *113*(1), 37-52.
28. Campbell, J. B., & Wynne, R. H. (2011). *Introduction to remote sensing*. Guilford Press.
29. Candade, N., & Dixon, B. (2004, May). Multispectral classification of Landsat images: a comparison of support vector machine and neural network classifiers. In *ASPRS Annual Conference Proceedings, Denver, Colorado*.
30. Central Water Commission. (2018). *Kerala Floods August 2018*. Retrieved from https://reliefweb.int/sites/reliefweb.int/files/resources/Rev-0.pdf
31. Chaplot, V. (2014). Impact of spatial input data resolution on hydrological and erosion modeling: Recommendations from a global assessment. *Physics and Chemistry of the Earth, Parts A/B/C*, *67*, 23-35.

32. Chen, L., Fu, B., & Zhao, W. (2008). Source-sink landscape theory and its ecological significance. *Frontiers of Biology in China*, *3*(2), 131-136.
33. Chen, N. (2020). Mapping mangrove in Dongzhaigang, China using Sentinel-2 imagery. *Journal of Applied Remote Sensing*, *14*(1), 014508.
34. Chen, X., & Zhang, Y. (2017). Impacts of urban surface characteristics on spatiotemporal pattern of land surface temperature in Kunming of China. *Sustainable Cities and Society*, *32*, 87-99.
35. Cheng, G., Han, J., Guo, L., Liu, Z., Bu, S., & Ren, J. (2015). Effective and efficient midlevel visual elements-oriented land-use classification using VHR remote sensing images. *IEEE Transactions on Geoscience and Remote Sensing*, *53*(8), 4238-4249.
36. Chunming, H., Huadong, G., Yun, S., & Jingjuan, L. (2005, July). Detection of the flood boundary in SAR image using texture. In *Proceedings. 2005 IEEE International Geoscience and Remote Sensing Symposium, 2005. IGARSS'05.* (Vol. 5, pp. 3697-3699). Ieee.
37. Cigdem, A., & Ozden, C. (2018). Predicting the severity of motor vehicle accident injuries in Adana-turkey using machine learning methods and detailed meteorological data. *International Journal of Intelligent Systems and Applications in Engineering*, *6*(1), 72-79.
38. Congalton, R. G. (2001). Accuracy assessment and validation of remotely sensed and other spatial information. *International Journal of Wildland Fire*, *10*(4), 321-328.
39. Costabile, P., Costanzo, C., Ferraro, D., Macchione, F., & Petaccia, G. (2020). Performances of the new HEC-RAS version 5 for 2-D hydrodynamic-based rainfall-runoff simulations at basin scale: Comparison with a state-of-the art model. *Water*, *12*(9), 2326.
40. Costabile, P., Macchione, F., Natale, L., & Petaccia, G. (2015). Flood mapping using LIDAR DEM. Limitations of the 1-D modeling highlighted by the 2-D approach. *Natural Hazards*, *77*(1), 181-204.
41. Cunningham, P., & Delany, S. J. (2020). k-Nearest Neighbour Classifiers--. *arXiv preprint arXiv:2004.04523*.
42. Dasallas, L., & Lee, S. (2019). Topographical Analysis of the 2013 Typhoon Haiyan Storm Surge Flooding by Combining the JMA Storm Surge Model and the FLO-2D Flood Inundation Model. *Water*, *11*(1), 144.
43. de Leeuw, M. R., & de Carvalho, L. M. T. (2009). Performance evaluation of several adaptive speckle filters for SAR imaging. *Anais XIV Simpósio Brasileiro de Sensoriamento Remoto*, 7299-7305.
44. De Pauw, E. (2018). Integrating expert knowledge in GIS to locate biophysical potential for water harvesting: methodology and a case study for Syria.
45. De Winnaar, G., Jewitt, G. P. W., & Horan, M. (2007). A GIS-based approach for identifying potential runoff harvesting sites in the Thukela River basin, South Africa. *Physics and Chemistry of the Earth, Parts A/B/C*, *32*(15-18), 1058-1067.
46. Deng. G. O. (1998). Principal component analysis of stacked multi-temporal images for the monitoring of rapid urban expansion in the Pearl River Delta. *International Journal of Remote Sensing*, *19*(8), 1501–1518. https://doi.org/10.1080/014311698215315

47. Deumlich, D., Schmidt, R., & Sommer, M. (2010). A multiscale soil–landform relationship in the glacial-drift area based on digital terrain analysis and soil attributes. *Journal of Plant Nutrition and Soil Science*, *173*(6), 843-851.
48. Dilts, T.E., 2015. Topography Tools for ArcGIS 10.1. Available at: http://www.arcgis.com/home/item.html?id=b13b3b40fa3c43d4a23a1a09c5fe96b9.
49. Drucker, H., Burges, C. J., Kaufman, L., Smola, A. J., & Vapnik, V. (1997). Support vector regression machines. In *Advances in neural information processing systems* (pp. 155-161).
50. Dumitru, C. O., Cui, S., Faur, D., & Datcu, M. (2014). Data analytics for rapid mapping: Case study of a flooding event in Germany and the tsunami in Japan using very high resolution SAR images. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, *8*(1), 114-129.
51. Durand, J. M., Gimonet, B. J., & Perbos, J. R. (1987). SAR data filtering for classification. *IEEE Transactions on Geoscience and Remote Sensing*, (5), 629-637.
52. Durga Rao, K. H. V., & Bhaumik, M. K. (2003). Spatial expert support system in selecting suitable sites for water harvesting structures—a case study of song watershed, Uttaranchal, India. *Geocarto International*, *18*(4), 43-50.
53. Durga Rao, K. H. V., & Bhaumik, M. K. (2003). Spatial expert support system in selecting suitable sites for water harvesting structures—a case study of song watershed, Uttaranchal, India. *Geocarto International*, *18*(4), 43-50.
54. Elkhrachy, I. (2015). Flash flood hazard mapping using satellite images and GIS tools: a case study of Najran City, Kingdom of Saudi Arabia (KSA). *The Egyptian Journal of Remote Sensing and Space Science*, *18*(2), 261-278.
55. Eze, E. B., & Efiong, J. (2010). Morphometric parameters of the Calabar river basin: Implication for hydrologic processes. *Journal of Geography and Geology*, *2*(1), 18.
56. FAO, 2003. Land and Water Digital Media Series, 26. Training Course on RWH (CDROM). Planning of Water Harvesting Schemes, Unit 22. Food and Agriculture Organization of the United Nations, Rome, FAO.
57. Fassoni-Andrade, A. C., Fan, F. M., Collischonn, W., Fassoni, A. C., & Paiva, R. C. D. D. (2018). Comparison of numerical schemes of river flood routing with an inertial approximation of the Saint Venant equations. *RBRH*, *23*.
58. Feldman, A. D. (2000). Hydrologic modeling system HEC-HMS: technical reference manual. US Army Corps of Engineers, Hydrologic Engineering Center.
59. Firozjaei, M. K., Alavipanah, S. K., Liu, H., Sedighi, A., Mijani, N., Kiavarz, M., & Weng, Q. (2019). A PCA–OLS model for assessing the impact of surface biophysical parameters on land surface temperature variations. *Remote Sensing*, *11*(18), 2094.
60. Foody, G. M., & Mathur, A. (2004). Toward intelligent training of supervised image classifications: directing training data acquisition for SVM classification. *Remote Sensing of Environment*, *93*(1-2), 107-117.
61. Francés, A. P., & Lubczynski, M. W. (2011). Topsoil thickness prediction at the catchment scale by integration of invasive sampling, surface geophysics, remote sensing and statistical modeling. *Journal of hydrology*, *405*(1-2), 31-47.
62. Frost, V. S., Stiles, J. A., Shanmugan, K. S., & Holtzman, J. C. (1982). A model for radar images and its application to adaptive digital filtering of multiplicative noise. *IEEE Transactions on pattern analysis and machine intelligence*, (2), 157-166.

63. Fu, B., Wang, Y., Campbell, A., Li, Y., Zhang, B., Yin, S., ... & Jin, X. (2017). Comparison of object-based and pixel-based Random Forest algorithm for wetland vegetation mapping using high spatial resolution GF-1 and SAR data. *Ecological indicators*, *73*, 105-117.
64. GALLANT, J. C. (2000). Primary topographic attributes. *Terrain analysis-principles and application*, 51-86.
65. Ghani, M. W., Arshad, M., Shabbir, A., Mehmood, N., & Ahmad, I. (2013). Investigation of potential water harvesting sites at Potohar using modeling approach. *Pakistan Journal of Agricultural Sciences*, *50*(4).
66. Ghimire, B., Rogan, J., Galiano, V. R., Panday, P., & Neeti, N. (2012). An evaluation of bagging, boosting, and random forests for land-cover classification in Cape Cod, Massachusetts, USA. *GIScience & Remote Sensing*, *49*(5), 623-643.
67. Gioti, E., Riga, C., Kalogeropoulos, K., & Chalkias, C. (2013). A GIS-based flash flood runoff model using high resolution DEM and meteorological data. *EARSeL eProceedings*, *12*(1), 33-43.
68. Gislason, P. O., Benediktsson, J. A., & Sveinsson, J. R. (2006). Random forests for land cover classification. *Pattern recognition letters*, *27*(4), 294-300.
69. Gitas, I. Z., Polychronaki, A., Katagis, T., & Mallinis, G. (2008). Contribution of remote sensing to disaster management activities: A case study of the large fires in the Peloponnese, Greece. *International journal of remote sensing*, *29*(6), 1847-1853.
70. Goodman, J. W. (1976). Some fundamental properties of speckle. *JOSA*, *66*(11), 1145-1150.
71. Guth, P. L. (2010, November). Geomorphometric comparison of ASTER GDEM and SRTM. In *A special joint symposium of ISPRS Technical Commission IV & AutoCarto in conjunction with ASPRS/CaGIS*.
72. Haashemi, S., Weng, Q., Darvishi, A., & Alavipanah, S. K. (2016). Seasonal variations of the surface urban heat island in a semi-arid city. *Remote Sensing*, *8*(4), 352.
73. Hamdani, N., & Baali, A. (2019). Height Above Nearest Drainage (HAND) model coupled with lineament mapping for delineating groundwater potential areas (GPA). *Groundwater for Sustainable Development*, *9*, 100256.
74. Hameed, H. M., Faqe, G. R., & Rasul, A. (2019). Effects of Land Cover Change on Surface Runoff Using GIS and Remote Sensing. *Environmental Remote Sensing and GIS in Iraq*, 205.
75. Han, J., Zhang, D., Cheng, G., Guo, L., & Ren, J. (2014). Object detection in optical remote sensing images based on weakly supervised learning and high-level feature learning. *IEEE Transactions on Geoscience and Remote Sensing*, *53*(6), 3325-3337.
76. Handayani, H. H., Murayama, Y., Ranagalage, M., Liu, F., & Dissanayake, D. M. S. L. B. (2018). Geospatial analysis of horizontal and vertical urban expansion using multi-spatial resolution data: A case study of Surabaya, Indonesia. *Remote Sensing*, *10*(10), 1599.
77. Hassan, Z., Shabbir, R., Ahmad, S. S., Malik, A. H., Aziz, N., Butt, A., & Erum, S. (2016). Dynamics of land use and land cover change (LULCC) using geospatial techniques: a case study of Islamabad Pakistan. *SpringerPlus*, *5*(1), 1-11.
78. Hengl, T., & Reuter, H. I. (Eds.). (2008). *Geomorphometry: concepts, software, applications*. Newnes.

79. Hojati, M., & Mokarram, M. (2016). Determination of a topographic wetness index using high resolution digital elevation models. *European Journal of Geography*, *7*(4), 41-52.
80. Horton, R. E. (1945). Erosional development of streams and their drainage basins; hydrophysical approach to quantitative morphology. *Geological society of America bulletin*, *56*(3), 275-370.
81. Huang, C., Davis, L. S., & Townshend, J. R. G. (2002). An assessment of support vector machines for land cover classification. *International Journal of remote sensing*, *23*(4), 725-749.
82. Huang, Q., Huang, J., Yang, X., Fang, C., & Liang, Y. (2019). Quantifying the seasonal contribution of coupling urban land use types on Urban Heat Island using Land Contribution Index: A case study in Wuhan, China. *Sustainable Cities and Society*, *44*, 666-675.
83. IBM. (2015). SPSS Modeler 17 Applications guide. ftp://public.dhe.ibm.com/software/analytics/spss/documentation/modeler/17.0/en/ModelerApplications.pdf
84. Illés, G., Kovács, G., & Heil, B. (2011). Comparing and evaluating digital soil mapping methods in a Hungarian forest reserve. *Canadian Journal of Soil Science*, *91*(4), 615-626.
85. Immitzer, M., Atzberger, C., & Koukal, T. (2012). Tree species classification with random forest using very high spatial resolution 8-band WorldView-2 satellite data. *Remote sensing*, *4*(9), 2661-2693.
86. IMSD, (1995). Integrated Mission for Sustainable Development technical guidelines, National Remote Sensing Agency, Department of Space, Govt. of India.
87. India Meteorological Department. (2018). *Rainfall over Kerala during Monsoon Season-2018 and forecast for next 5 days*. Retrieved from https://www.imdtvm.gov.in/images/rainfall over kerala during monsoon season-2018 and forecast for next 5 days.pdf
88. Iosub, M., Minea, I., Chelariu, O. E., & Ursu, A. (2020). Assessment of flash flood susceptibility potential in Moldavian Plain (Romania). *Journal of Flood Risk Management*, *13*(4), e12588.
89. Iwahashi, J., & Pike, R. J. (2007). Automated classifications of topography from DEMs by an unsupervised nested-means algorithm and a three-part geometric signature. *Geomorphology*, *86*(3-4), 409-440.
90. Janssen, L. L., & Vanderwel, F. J. (1994). Accuracy assessment of satellite derived land-cover data: a review. *Photogrammetric engineering and remote sensing;(United States)*, *60*(4).
91. Jarihani, A. A., Callow, J. N., McVicar, T. R., Van Niel, T. G., & Larsen, J. R. (2015). Satellite-derived Digital Elevation Model (DEM) selection, preparation and correction for hydrodynamic modelling in large, low-gradient and data-sparse catchments. *Journal of Hydrology*, *524*, 489-506.
92. Javed, F., Chan, G. S., Savkin, A. V., Middleton, P. M., Malouf, P., Steel, E., ... & Lovell, N. H. (2009, September). RBF kernel based support vector regression to estimate the blood volume and heart rate responses during hemodialysis. In *2009 Annual International Conference of the IEEE Engineering in Medicine and Biology Society* (pp. 4352-4355). IEEE.

93. Jenness, J. (2006). Topographic Position Index (tpi_jen.avx) extension for ArcView 3.x, v.1.3a. Retrieved from http://www.jennessent.com/arcview/tpi.htm.
94. Jenson, S. K., & Domingue, J. O. (1988). Extracting topographic structure from digital elevation data for geographic information system analysis. *Photogrammetric engineering and remote sensing*, *54*(11), 1593-1600.
95. Jha, M. K., Chowdary, V. M., Kulkarni, Y., & Mal, B. C. (2014). Rainwater harvesting planning using geospatial techniques and multicriteria decision analysis. *Resources, Conservation and Recycling*, *83*, 96-111.
96. Käfer, P. S., Rolim, S. B. A., Iglesias, M. L., da Rocha, N. S., & Diaz, L. R. (2019). Land surface temperature retrieval by LANDSAT 8 thermal band: applications of laboratory and field measurements. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, *12*(7), 2332-2341.
97. Kahinda, J. Mwenge, E. S. B. Lillie, A. E. Taigbenu, M. Taute, and R. J. Boroto. "Developing suitability maps for rainwater harvesting in South Africa." *Physics and Chemistry of the Earth, Parts A/B/C* 33, no. 8-13 (2008): 788-799.
98. Kant, Y., Bharath, B. D., Mallick, J., Atzberger, C., & Kerle, N. (2009). Satellite-based analysis of the role of land use/land cover and vegetation density on surface temperature regime of Delhi, India. *Journal of the Indian Society of Remote Sensing*, *37*(2), 201-214.
99. Karimi, H., & Zeinivand, H. (2021). Integrating runoff map of a spatially distributed model and thematic layers for identifying potential rainwater harvesting suitability sites using GIS techniques. *Geocarto International*, *36*(3), 320-339.
100. Karmokar, S., & De, M. (2020). Flash flood risk assessment for drainage basins in the Himalayan foreland of Jalpaiguri and Darjeeling Districts, West Bengal. *Modeling Earth Systems and Environment*, *6*, 2263-2289.
101. Khatami, R., Mountrakis, G., & Stehman, S. V. (2016). A meta-analysis of remote sensing research on supervised pixel-based land-cover image classification processes: General guidelines for practitioners and future research. *Remote Sensing of Environment*, *177*, 89-100.
102. Krois, J., & Schulte, A. (2014). GIS-based multi-criteria evaluation to identify potential sites for soil and water conservation techniques in the Ronquillo watershed, northern Peru. *Applied Geography*, *51*, 131-142.
103. Kumar, T., & Jhariya, D. C. (2017). Identification of rainwater harvesting sites using SCS-CN methodology, remote sensing and Geographical Information System techniques. *Geocarto International*, *32*(12), 1367-1388.
104. Lama, S., & Maiti, R. (2019). Morphometric Analysis of Chel River Basin, West Bengal, India, using Geographic Information System. *Earth Science India*, *12*(1).
105. Lee, J. S. (1981). Speckle analysis and smoothing of synthetic aperture radar images. *Computer graphics and image processing*, *17*(1), 24-32.
106. Lee, J. S., & Pottier, E. (2017). *Polarimetric radar imaging: from basics to applications*. CRC press.
107. Lee, J. S., Jurkevich, L., Dewaele, P., Wambacq, P., & Oosterlinck, A. (1994). Speckle filtering of synthetic aperture radar images: A review. *Remote sensing reviews*, *8*(4), 313-340.

108. Lesschen, J. P., Kok, K., Verburg, P. H., & Cammeraat, L. H. (2007). Identification of vulnerable areas for gully erosion under different scenarios of land abandonment in Southeast Spain. *Catena*, *71*(1), 110-121.
109. Li, J. (2021). Fundamentals of Satellite Remote Sensing Technology. In *Satellite Remote Sensing Technologies* (pp. 1-26). Springer, Singapore.
110. Li, J., & Wong, D. W. S. (2010). Computers, environment and urban systems effects of DEM sources on hydrologic applications. *Comput Environ Urban Syst*, *34*(3), 251-261.
111. Liu, H., Bu, R., Liu, J., Leng, W., Hu, Y., Yang, L., & Liu, H. (2011). Predicting the wetland distributions under climate warming in the Great Xing'an Mountains, northeastern China. *Ecological research*, *26*(3), 605-613.
112. Liu, M., Hu, Y., Chang, Y., He, X., & Zhang, W. (2009). Land use and land cover change analysis and prediction in the upper reaches of the Minjiang River, China. *Environmental management*, *43*(5), 899-907.
113. Lopes, A., Nezry, E., Touzi, R., & Laur, H. (1990, May). Maximum a posteriori speckle filtering and first order texture models in SAR images. In *10th annual international symposium on geoscience and remote sensing* (pp. 2409-2412). Ieee.
114. Loritz, R., Kleidon, A., Jackisch, C., Westhoff, M., Ehret, U., Gupta, H., & Zehe, E. (2019). A topographic index explaining hydrological similarity by accounting for the joint controls of runoff formation. *Hydrology and Earth System Sciences*, *23*(9), 3807-3821.
115. Lu, D., Mausel, P., Brondizio, E., & Moran, E. (2004). Change detection techniques. *International journal of remote sensing*, *25*(12), 2365-2401.
116. Ma, Y., Kuang, Y., & Huang, N. (2010). Coupling urbanization analyses for studying urban thermal environment and its interplay with biophysical parameters based on TM/ETM+ imagery. International Journal of Applied Earth Observation and Geoinformation, 12(2), 110–118.
117. Magesh, N. S., & Chandrasekar, N. (2014). GIS model-based morphometric evaluation of Tamiraparani subbasin, Tirunelveli district, Tamil Nadu, India. *Arabian Journal of Geosciences*, *7*(1), 131-141.
118. Mahdianpari, M., Salehi, B., Mohammadimanesh, F., & Brisco, B. (2017). An assessment of simulated compact polarimetric SAR data for wetland classification using random forest algorithm. *Canadian Journal of Remote Sensing*, *43*(5), 468-484.
119. Mahmood, S., & Rahman, A. U. (2019). Flash flood susceptibility modeling using geo-morphometric and hydrological approaches in Panjkora Basin, Eastern Hindu Kush, Pakistan. *Environmental earth sciences*, *78*(1), 43.
120. Mahmoud, S. H., & Alazba, A. A. (2015). The potential of in situ rainwater harvesting in arid regions: developing a methodology to identify suitable areas using GIS-based decision support system. *Arabian Journal of Geosciences*, *8*(7), 5167-5179.
121. Malczewski, J., 1999. GIS and Multicriteria Decision Analysis. John Wiley & Sons, Inc.. 392 pp.
122. Malik, S., & Pal, S. C. (2020). Application of 2D numerical simulation for rating curve development and inundation area mapping: a case study of monsoon dominated Dwarkeswar River. *International Journal of River Basin Management*, 1-11.
123. Mallick, J., Kant, Y., & Bharath, B. D. (2008). Estimation of land surface temperature over Delhi using Landsat-7 ETM+. *J. Ind. Geophys. Union*, *12*(3), 131-140.

124. Manandhar, R., Odeh, I. O., & Ancev, T. (2009). Improving the accuracy of land use and land cover classification of Landsat data using post-classification enhancement. *Remote Sensing*, *1*(3), 330-344.
125. Markose, V. J., & Jayappa, K. S. (2011). Hypsometric analysis of Kali River Basin, Karnataka, India, using geographic information system. *Geocarto International*, *26*(7), 553-568.
126. Martz, L. W., & Garbrecht, J. (1998). The treatment of flat areas and depressions in automated drainage analysis of raster digital elevation models. *Hydrological processes*, *12*(6), 843-855.
127. Martz, L. W., & Garbrecht, J. (1999). An outlet breaching algorithm for the treatment of closed depressions in a raster DEM. *Computers & Geosciences*, *25*(7), 835-844.
128. Masoud, M. H. (2016). Geoinformatics application for assessing the morphometric characteristics' effect on hydrological response at watershed (case study of Wadi Qanunah, Saudi Arabia). *Arabian Journal of Geosciences*, *9*(4), 1-22.
129. Massetti, A., & Gil, A. (2020). Mapping and assessing land cover/land use and aboveground carbon stocks rapid changes in small oceanic islands' terrestrial ecosystems: A case study of Madeira Island, Portugal (2009–2011). *Remote Sensing of Environment*, *239*, 111625.
130. Mati, B., De Bock, T., Malesu, M., Khaka, E., Oduor, A., Meshack, M., & Oduor, V. (2006). Mapping the potential of rainwater harvesting technologies in Africa. *A GIS overview on development domains for the continent and ten selected countries. Technical Manual*, *6*, 126.
131. Mcfeeters, S.K., 1996. The use of the Normalized Difference Water Index (NDWI) in the delineation of open water features. Int. J. Remote Sens. https://doi.org/10.1080/01431169608948714.
132. McGarigal, K., Tagil, S., & Cushman, S. A. (2009). Surface metrics: an alternative to patch metrics for the quantification of landscape structure. *Landscape ecology*, *24*(3), 433-450.
133. McKee, T. B., Doesken, N. J., & Kleist, J. (1993, January). The relationship of drought frequency and duration to time scales.
134. Mesh type tradeoffs in 2D hydrodynamic modeling of flooding with a Godunov-based flow solver.
135. Min, M., Zhao, H., & Miao, C. (2018). Spatio-temporal evolution analysis of the urban heat island: A case study of Zhengzhou City, China. *Sustainability*, *10*(6), 1992.
136. Moges, G., & Bhole, V. (2015). Morphometric characteristics and the relation of stream orders to hydraulic parameters of river Goro: An Ephemeral River in Dire-Dawa, Ethiopia. *Universal Journal of geoscience*, *3*(1), 13-27.
137. Mou, H., & Wang, H. (1999). 1 Division Study of Rainwater Utilization in China. Conference, Brazil.
138. Nag, S. K. (1998). Morphometric analysis using remote sensing techniques in the Chaka sub-basin, Purulia district, West Bengal. *Journal of the Indian society of remote sensing*, *26*(1-2), 69-76.
139. Nikolakopoulos, K. G., Kamaratakis, E. K., & Chrysoulakis, N. (2006). SRTM vs ASTER elevation products. Comparison for two regions in Crete, Greece. *International Journal of remote sensing*, *27*(21), 4819-4838.

140. Nirupama, N., & Simonovic, S. P. (2007). Increase of flood risk due to urbanisation: A Canadian example. *Natural Hazards*, *40*(1), 25.
141. Nobre, A. D., Cuartas, L. A., Hodnett, M., Rennó, C. D., Rodrigues, G., Silveira, A., Waterloo, M. & Saleska, S. (2011). Height Above the Nearest Drainage–a hydrologically relevant new terrain model. *Journal of Hydrology*, *404*(1-2), 13-29.
142. Ok, A. O., Akar, O., & Gungor, O. (2012). Evaluation of random forest method for agricultural crop classification. *European Journal of Remote Sensing*, *45*(1), 421-432.
143. Omran, A., Dietrich, S., Abouelmagd, A., & Michael, M. (2016). New ArcGIS tools developed for stream network extraction and basin delineations using Python and java script. *Computers & Geosciences*, *94*, 140-149.
144. Ongdas, N., Akiyanova, F., Karakulov, Y., Muratbayeva, A., & Zinabdin, N. (2020). Application of HEC-RAS (2D) for flood hazard maps generation for Yesil (Ishim) river in Kazakhstan. *Water*, *12*(10), 2672.
145. Oommen, T., Misra, D., Twarakavi, N. K., Prakash, A., Sahoo, B., & Bandopadhyay, S. (2008). An objective analysis of support vector machine based classification for remote sensing. *Mathematical geosciences*, *40*(4), 409-424.
146. Ozdemir, H., & Bird, D. (2009). Evaluation of morphometric parameters of drainage networks derived from topographic maps and DEM in point of floods. *Environmental geology*, *56*(7), 1405-1415.
147. Ozesmi, S. L., & Bauer, M. E. (2002). Satellite remote sensing of wetlands. *Wetlands ecology and management*, *10*(5), 381-402.
148. Pal, M., & Mather, P. M. (2005). Support vector machines for classification in remote sensing. *International journal of remote sensing*, *26*(5), 1007-1011.
149. Pande, C. B., & Moharir, K. (2017). GIS based quantitative morphometric analysis and its consequences: a case study from Shanur River Basin, Maharashtra India. *Applied Water Science*, *7*(2), 861-871.
150. Parastatidis, D., Mitraka, Z., Chrysoulakis, N., & Abrams, M. (2017). Online global land surface temperature estimation from Landsat. *Remote sensing*, *9*(12), 1208.
151. Patterson, J. J. (2008). Late Holocene land use in the Nutzotin Mountains: lithic scatters, viewsheds, and resource distribution. *Arctic Anthropology*, *45*(2), 114-127.
152. Paul, D., Mandla, V. R., & Singh, T. (2017). Quantifying and modeling of stream network using digital elevation models. Ain Shams Engineering Journal, 8(3), 311-321.
153. Pelletier, C., Valero, S., Inglada, J., Champion, N., & Dedieu, G. (2016). Assessing the robustness of Random Forests to map land cover with high resolution satellite image time series over large areas. *Remote Sensing of Environment*, *187*, 156-168.
154. Persendt, F. C., & Gomez, C. (2016). Assessment of drainage network extractions in a low-relief area of the Cuvelai Basin (Namibia) from multiple sources: LiDAR, topographic maps, and digital aerial orthophotographs. *Geomorphology*, *260*, 32-50.
155. Pham, H. T., Marshall, L., Johnson, F., & Sharma, A. (2018). A method for combining SRTM DEM and ASTER GDEM2 to improve topography estimation in regions without reference data. *Remote Sensing of Environment*, *210*, 229-241.
156. Pike, R. J., & Wilson, S. E. (1971). Elevation-relief ratio, hypsometric integral, and geomorphic area-altitude analysis. *Geological Society of America Bulletin*, *82*(4), 1079-1084.

157. Pracilio, G., Smettem, K. R., Bennett, D., Harper, R. J., & Adams, M. L. (2006). Site assessment of a woody crop where a shallow hardpan soil layer constrained plant growth. *Plant and soil*, *288*(1), 113-125.
158. Pramanik, S., & Punia, M. (2019). Land use/land cover change and surface urban heat island intensity: source–sink landscape-based study in Delhi, India. *Environment, Development and Sustainability*, 1-26.
159. Prasad, H. C., Bhalla, P., & Palria, S. (2014). Site suitability analysis of water harvesting structures using remote sensing and GIS-A case study of Pisangan watershed, Ajmer district, Rajasthan. *The International Archives of Photogrammetry, Remote Sensing and Spatial Information Sciences*, *40*(8), 1471.
160. Qiu, F., Berglund, J., Jensen, J. R., Thakkar, P., & Ren, D. (2004). Speckle noise reduction in SAR imagery using a local adaptive median filter. *GIScience & Remote Sensing*, *41*(3), 244-266.
161. Quinn, P. F. B. J., Beven, K., Chevallier, P., & Planchon, O. (1991). The prediction of hillslope flow paths for distributed hydrological modelling using digital terrain models. *Hydrological processes*, *5*(1), 59-79.
162. Quirogaa, V. M., Kurea, S., Udoa, K., & Manoa, A. (2016). Application of 2D numerical simulation for the analysis of the February 2014 Bolivian Amazonia flood: Application of the new HEC-RAS version 5. *Ribagua*, *3*(1), 25-33.
163. Rakesh, K., Lohani, A. K., Sanjay, K., Chattered, C., & Nema, R. K. (2000). GIS based morphometric analysis of Ajay river basin upto Srarath gauging site of South Bihar. *Journal of Applied Hydrology*, *14*(4), 45-54.
164. Ramli, N. A., Hamid, M. F. A., Azhan, N. H., & Ishak, M. A. A. S. (2019, July). Solar power generation prediction by using k-nearest neighbor method. In *AIP Conference Proceedings* (Vol. 2129, No. 1, p. 020116). AIP Publishing LLC.
165. Rana, V. K., & Suryanarayana, T. M. V. (2019). Visual and statistical comparison of ASTER, SRTM, and Cartosat digital elevation models for watershed. *Journal of Geovisualization and Spatial Analysis*, *3*(2), 12.
166. Rana, V. K., & Suryanarayana, T. M. V. (2020). Performance evaluation of MLE, RF and SVM classification algorithms for watershed scale land use/land cover mapping using sentinel 2 bands. *Remote Sensing Applications: Society and Environment*, *19*, 100351.
167. Ranagalage, M., Estoque, R. C., Zhang, X., & Murayama, Y. (2018). Spatial changes of urban heat island formation in the Colombo District, Sri Lanka: Implications for sustainability planning. *Sustainability*, *10*(5), 1367.
168. Ranagalage, M., Murayama, Y., Dissanayake, D. M. S. L. B., & Simwanda, M. (2019). The impacts of landscape changes on annual mean land surface temperature in the tropical mountain city of Sri Lanka: A case study of Nuwara Eliya (1996–2017). *Sustainability*, *11*(19), 5517.
169. Raouf, A., & Lichtenegger, J. (1997). Integrated use of SAR and optical data for coastal zone management. *In Third ERS Symposium on Space at the Service of Our Environment*, *414*, 1089.
170. Rasul, A., Balzter, H., Ibrahim, G. R. F., Hameed, H. M., Wheeler, J., Adamu, B., ... & Najmaddin, P. M. (2018). Applying built-up and bare-soil indices from landsat 8 to cities in dry climates. *Land*, *7*(3), 81.

171. Reddy, G. P. O., Maji, A. K., & Gajbhiye, K. S. (2004). Drainage morphometry and its influence on landform characteristics in a basaltic terrain, Central India–a remote sensing and GIS approach. *International Journal of Applied Earth Observation and Geoinformation*, *6*(1), 1-16.
172. Rennó, C.D., Nobre, A.D., Cuartas, L.A., Soares, J.V., Hodnett, M.G., Tomasella, J., Waterloo, M.J., 2008. HAND, a new terrain descriptor using SRTM-DEM: mapping terra-firme rainforest environments in Amazonia. Remote Sens. Environ. 112 (9), 3469–3481.
173. Rincón, D., Khan, U. T., & Armenakis, C. (2018). Flood risk mapping using GIS and multi-criteria analysis: A greater Toronto area case study. *Geosciences*, *8*(8), 275.
174. Rizeei, H. M., Pradhan, B., & Saharkhiz, M. A. (2018). Surface runoff prediction regarding LULC and climate dynamics using coupled LTM, optimized ARIMA, and GIS-based SCS-CN models in tropical region. *Arabian Journal of Geosciences*, *11*(3), 53.
175. Rodriguez-Galiano, V. F., Ghimire, B., Rogan, J., Chica-Olmo, M., & Rigol-Sanchez, J. P. (2012). An assessment of the effectiveness of a random forest classifier for land-cover classification. *ISPRS Journal of Photogrammetry and Remote Sensing*, *67*, 93-104.
176. Ross, C. W., Prihodko, L., Anchang, J., Kumar, S., Ji, W., & Hanan, N. P. (2018). HYSOGs250m, global gridded hydrologic soil groups for curve-number-based runoff modeling. *Scientific data*, *5*(1), 1-9.
177. Rozos, D., Bathrellos, G. D., & Skillodimou, H. D. (2011). Comparison of the implementation of rock engineering system and analytic hierarchy process methods, upon landslide susceptibility mapping, using GIS: a case study from the Eastern Achaia County of Peloponnesus, Greece. *Environmental Earth Sciences*, *63*(1), 49-63.
178. Rundquist, D. C., Narumalani, S., & Narayanan, R. M. (2001). A review of wetlands remote sensing and defining new considerations.
179. Saaty, T. L. (1977). A scaling method for priorities in hierarchical structures. *Journal of mathematical psychology*, *15*(3), 234-281.
180. Saaty, T. L. (1987). Rank generation, preservation, and reversal in the analytic hierarchy decision process. *Decision sciences*, *18*(2), 157-177.
181. Saaty, T. L. (1990). How to make a decision: the analytic hierarchy process. European Journal of Operational Research, 48(1), 9e26
182. Sarangi, A., Bhattacharya, A. K., Singh, A., & Singh, A. K. (2001). Use of Geographic Information System (GIS) in assessing the erosion status of watersheds. *Indian J Soil Conserv*, *29*(19), F195.
183. Scanlon, B. R., Keese, K. E., Flint, A. L., Flint, L. E., Gaye, C. B., Edmunds, W. M., & Simmers, I. (2006). Global synthesis of groundwater recharge in semiarid and arid regions. *Hydrological Processes: An International Journal*, *20*(15), 3335-3370.
184. Senthilnath, J., Shenoy, H. V., Rajendra, R., Omkar, S. N., Mani, V., & Diwakar, P. G. (2013). Integration of speckle de-noising and image segmentation using Synthetic Aperture Radar image for flood extent extraction. *Journal of earth system science*, *122*(3), 559-572.
185. Serpico, S. B., Dellepiane, S., Boni, G., Moser, G., Angiati, E., & Rudari, R. (2012). Information extraction from remote sensing images for flood monitoring and damage evaluation. *Proceedings of the IEEE*, *100*(10), 2946-2970.

186. Serpico, S. B., Dellepiane, S., Boni, G., Moser, G., Angiati, E., & Rudari, R. (2012). Information extraction from remote sensing images for flood monitoring and damage evaluation. *Proceedings of the IEEE*, *100*(10), 2946-2970.
187. Shafizadeh-Moghadam, H., Weng, Q., Liu, H., & Valavi, R. (2020). Modeling the spatial variation of urban land surface temperature in relation to environmental and anthropogenic factors: a case study of Tehran, Iran. *GIScience & Remote Sensing*, *57*(4), 483-496.
188. Shamsoddini, A., Trinder, J. C., Wagner, W., & Székely, B. (2010). *Image texture preservation in speckle noise suppression* (pp. 239-244). na.
189. Sharma, A., & Tiwari, K. N. (2014). A comparative appraisal of hydrological behavior of SRTM DEM at catchment level. *Journal of Hydrology*, *519*, 1394-1404.
190. Sheng, Y., & Xia, Z. G. (1996, May). A comprehensive evaluation of filters for radar speckle suppression. In *IGARSS'96. 1996 International Geoscience and Remote Sensing Symposium* (Vol. 3, pp. 1559-1561). IEEE.
191. Shuai, T., Zhang, X., Wang, S., Zhang, L., Shang, K., Chen, X., & Wang, J. (2014). A spectral angle distance-weighting reconstruction method for filled pixels of the MODIS land surface temperature product. *IEEE Geoscience and Remote Sensing Letters*, *11*(9), 1514-1518.
192. Singh, L. K., Jha, M. K., & Chowdary, V. M. (2017). Multi-criteria analysis and GIS modeling for identifying prospective water harvesting and artificial recharge sites for sustainable water supply. *Journal of Cleaner Production*, *142*, 1436-1456.
193. Smith, K. G. (1950). Standards for grading texture of erosional topography. *American journal of Science*, *248*(9), 655-668.
194. Sobrino, J. A., Jiménez-Muñoz, J. C., & Paolini, L. (2004). Land surface temperature retrieval from LANDSAT TM 5. *Remote Sensing of environment*, *90*(4), 434-440.
195. Sørensen, R., & Seibert, J. (2007). Effects of DEM resolution on the calculation of topographical indices: TWI and its components. *Journal of Hydrology*, *347*(1-2), 79-89.
196. Story, M., & Congalton, R. G. (1986). Accuracy assessment: a user's perspective. *Photogrammetric Engineering and remote sensing*, *52*(3), 397-399.
197. Strahler, A. N. (1957). Quantitative analysis of watershed geomorphology. *Eos, Transactions American Geophysical Union*, *38*(6), 913-920.
198. Strahler, A. N. (1964). Part II. Quantitative geomorphology of drainage basins and channel networks. *Handbook of Applied Hydrology: McGraw-Hill, New York*, 4-39.
199. Subedi, M., & Tamrakar, N. K. (2020). Fluvial Geomorphology and Basin Development of Karra Khola Basin, Hetauda, Central Nepal. *Journal of Geological Research*, *2*(4).
200. Subramanya, K. (2013). *Engineering hydrology, 4e*. Tata McGraw-Hill Education.
201. Sudhakar, B. S., Anupam, K. S., & Akshay, O. J. (2015). Snyder unit hydrograph and GIS for estimation of flood for un-gauged catchments in lower Tapi basin, India. *Hydrology: Current Research*, *6*(1), 1.
202. Sukristiyanti, S., Maria, R., & Lestiana, H. (2018, February). Watershed-based morphometric analysis: a review. In *IOP conference series: earth and environmental science* (Vol. 118, pp. 12-28). IOP Publishing.
203. Tağıl, Ş., & Jenness, J. (2008). GIS-based automated landform classification and topographic, landcover and geologic attributes of landforms around the Yazoren Polje, Turkey.

204. Tan, M. L., Ficklin, D. L., Dixon, B., Yusop, Z., & Chaplot, V. (2015). Impacts of DEM resolution, source, and resampling technique on SWAT-simulated streamflow. *Applied Geography*, *63*, 357-368.
205. Thakur, B., Parajuli, R., Kalra, A., Ahmad, S., & Gupta, R. (2017). Coupling HEC-RAS and HEC-HMS in precipitation runoff modelling and evaluating flood plain inundation map. In *World Environmental and Water Resources Congress 2017* (pp. 240-251).
206. Tomlinson, C. J., Chapman, L., Thornes, J. E., & Baker, C. (2011). Remote sensing land surface temperature for meteorology and climatology: A review. *Meteorological Applications*, *18*(3), 296-306.
207. Tripathi, S. S. (2018). Impact of land use land cover change on runoff using RS & GIS and curve number. *International Journal of Basic and Applied Agricultural Research*, *16*(3), 224-227.
208. Turner, B. L., Lambin, E. F., & Reenberg, A. (2007). The emergence of land change science for global environmental change and sustainability. *Proceedings of the National Academy of Sciences*, *104*(52), 20666-20671.
209. Vapnik, V. (2013). *The nature of statistical learning theory*. Springer science & business media.
210. Vozinaki, A. E. K., Morianou, G. G., Alexakis, D. D., & Tsanis, I. K. (2017). Comparing 1D and combined 1D/2D hydraulic simulations using high-resolution topographic data: A case study of the Koiliaris basin, Greece. *Hydrological Sciences Journal*, *62*(4), 642-656.
211. Wakode, H. B., Dutta, D., Desai, V. R., Baier, K., & Azzam, R. (2013). Morphometric analysis of the upper catchment of Kosi River using GIS techniques. *Arabian Journal of Geosciences*, *6*(2), 395-408.
212. Wang, W., Yang, X., & Yao, T. (2012). Evaluation of ASTER GDEM and SRTM and their suitability in hydraulic modelling of a glacial lake outburst flood in southeast Tibet. *Hydrological Processes*, *26*(2), 213-225.
213. Wang, X., Ge, L., & Li, X. (2012). Evaluation of filters for ENVISAT ASAR speckle suppression in pasture area. *ISPRS Annals of Photogrammetry, Remote Sensing and Spatial Information Sciences*, *7*, 341-346.
214. Weerasinghe, H., Schneider, U. A., & Loew, A. (2011). Water harvest-and storage-location assessment model using GIS and remote sensing. *Hydrology and Earth System Sciences Discussions*, *8*(2), 3353-3381.
215. Weiss, A. (2001, July). Topographic position and landforms analysis. In *Poster presentation, ESRI user conference, San Diego, CA* (Vol. 200).
216. Wendler, T., & Gröttrup, S. (2016). *Data mining with SPSS modeler: theory, exercises and solutions*. Springer.
217. Weng, Q. (2001). A remote sensing? GIS evaluation of urban expansion and its impact on surface temperature in the Zhujiang Delta, China. *International journal of remote sensing*, *22*(10), 1999-2014.
218. Weng, Q. (Ed.). (2007). *Taylor & Francis Series in Remote Sensing Applications*. CRC Press, Taylor & Francis Group.
219. Weng, Q., Lu, D., & Schubring, J. (2004). Estimation of land surface temperature–vegetation abundance relationship for urban heat island studies. *Remote sensing of Environment*, *89*(4), 467-483.

220. Wilson, J. P., & Gallant, J. C. (Eds.). (2000). *Terrain analysis: principles and applications*. John Wiley & Sons.
221. Winter, T. C., & LaBaugh, J. W. (2003). Hydrologic considerations in defining isolated wetlands. *Wetlands*, *23*(3), 532-540.
222. Wolock, D. M., & Price, C. V. (1994). Effects of digital elevation model map scale and data resolution on a topography-based watershed model. *Water Resources Research*, *30*(11), 3041-3052.
223. Wu, R. S., Molina, G. L. L., & Hussain, F. (2018). Optimal sites identification for rainwater harvesting in northeastern Guatemala by analytical hierarchy process. *Water resources management*, *32*(12), 4139-4153.
224. Wu, T., & Han, L. (2019). Cloud Extraction Scheme for Multi-Spectral Images Using Landsat-8 OLI Images With High Brightness Reflectivity Covered. *IEEE Access*, *8*, 3387-3396.
225. Xu, S. (2009). An approach to analyzing the intensity of the daytime surface urban heat island effect at a local scale. *Environmental monitoring and assessment*, *151*(1-4), 289.
226. Yang, C., Everitt, J. H., & Murden, D. (2011). Evaluating high resolution SPOT 5 satellite imagery for crop identification. *Computers and Electronics in Agriculture*, *75*(2), 347–354. https://doi.org/10.1016/j.compag.2010.12.012
227. Yu, L., Liang, L., Wang, J., Zhao, Y., Cheng, Q., Hu, L., ... & Gong, P. (2014). Meta-discoveries from a synthesis of satellite-based land-cover mapping research. *International Journal of Remote Sensing*, *35*(13), 4573-4588.
228. Zakerinejad, R. (2016). *Integrated Assessment of Gully Erosion Processes, Using Multispectral Remote Sensing, Stochastic Modelling, and GIS-based Morphotectonic Analysis; A Case Study in the Southwest of Iran* (Doctoral dissertation, Universitätsbibliothek Tübingen).
229. Zeng, C., Shen, H., Zhong, M., Zhang, L., & Wu, P. (2014). Reconstructing MODIS LST based on multitemporal classification and robust regression. *IEEE Geoscience and Remote Sensing Letters*, *12*(3), 512-516.
230. Zhang, F., Zhu, X., & Liu, D. (2014). Blending MODIS and Landsat images for urban flood mapping. *International journal of remote sensing*, *35*(9), 3237-3253.
231. Zhang, S. Q., Zhang, S. K., & Zhang, J. Y. (2000). A study on wetland classification model of remote sensing in the Sangjiang Plain. *Chinese Geographical Science*, *10*(1), 68-73.
232. Zhang, X., Estoque, R. C., & Murayama, Y. (2017). An urban heat island study in Nanchang City, China based on land surface temperature and social-ecological variables. *Sustainable cities and society*, *32*, 557-568.
233. Zhao, M., Cai, H., Qiao, Z., & Xu, X. (2016). Influence of urban expansion on the urban heat island effect in Shanghai. *International Journal of Geographical Information Science*, *30*(12), 2421-2441.
234. Zölch, T., Maderspacher, J., Wamsler, C., & Pauleit, S. (2016). Using green infrastructure for urban climate-proofing: An evaluation of heat mitigation measures at the micro-scale. *Urban Forestry & Urban Greening*, *20*, 305-316.