

Umair Rabbani

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Dr. Umair Rabbani is currently working as UNESCO's Spatial Hydrology Officer for the project 'Strategic Strengthening of Flood Forecasting and Management Capacity of Pakistan'. He received his Ph.D from Charles Sturt University, Australia in 2014, where he also worked as remote sensing scientist on different spatial hydrology projects in Murray-Darling Basin. Later, he joined Space and Upper Atmosphere Research Commission (SUPARCO) Pakistan and worked in spatial technologies in disaster management in Pakistan, flood Inundation modelling and hazard mapping for Phase-1 of UNESCO's project. Near real-time inundation analysing using Landsat-8, SPOT-6/7, MODIS, TerraSAR-X, Daichi-PalSAR-2 and Sentinel-1A for daily flood update for support to national flood management stakeholders during 20114 and 2015 floods in Pakistan. Implementation of Rainfall-Runoff-Inundation model for daily forecasted-inundation damage assessment for Indus River during Pakistan Flood 2015. Earthquake damage analysis and mapping using multiple high-spatial multispectral and SAR satellite datasets acquired through international disaster charters (i.e Sentinel-Asia, UN-Spider). Currently, his work is focused on calibration and parameterization of rainfall-runoff-inundation model for Jhelum, Chenab, Ravi and Sutlej rivers of Punjab, Pakistan..