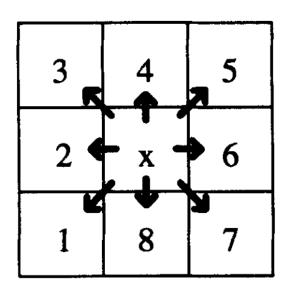
Flow Metrics

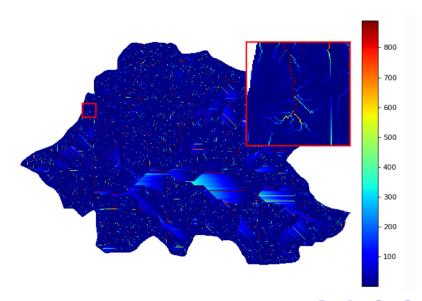
GeoComput & ML

2021-05-18 Tue

Flow Grids



D8 : Single directional flow

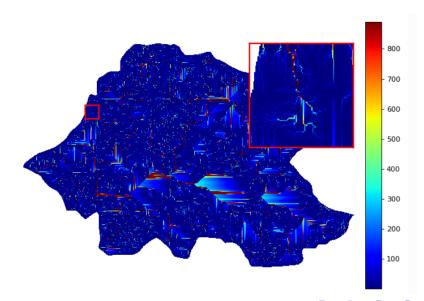


Holmgren: Multi-directional flow

$$f_i = rac{(aneta_i)^{ imes}}{\sum_{j=1}^{8} (aneta_j)^{ imes}}$$

where f_i is the flow proportion, β is the slope gradient and x is a weighing factor.

Holmgren



References



Holmgren, P., Multiple flow direction algorithms for runoff modelling in grid based elevation models: an empirical evaluation. Hydrological processes (1994) 8, 327–334.

https://richdem.com/flow_metrics.html