

## Homework 3

### Review of methods used for flood inundation mapping using ArcGIS

Flood Impact Analysis can be used to develop localized flooding scenarios and visualize the impact of flooding on public infrastructure, critical facilities, and vulnerable populations.

You will be reviewing the published papers and reports available online on mapping flooding using ArcGIS and create a report (Single spacing, 11 Calibri Font Size, justified, 3-5 pages). You will be discussing different methods using ArcGIS software for flood mapping.

**Below are some sample references can be used:**

<https://www.sciencedirect.com/science/article/pii/S0048969722015133>

<https://www.esri.com/en-us/disaster-response/disasters/flooding>

<https://www.fema.gov/flood-maps/national-flood-hazard-layer>

<https://link.springer.com/article/10.1007/s40808-021-01308-z>

[https://link.springer.com/chapter/10.1007/978-3-030-34397-2\\_22](https://link.springer.com/chapter/10.1007/978-3-030-34397-2_22)

<https://www.sciencedirect.com/science/article/pii/S0926580521000777>

<https://www.caee.utexas.edu/prof/maidment/giswr2018/TermProjectGroups2018.htm>