Approach to Automated Storytelling Using Cluster Polygons

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In order to able to tell a coherent spatio-temporal data story from the change analysis output, we need to be able to pick out resultant change polygons give definition that have seem to have significant impact on the dataset as a whole. We propose using an interestingness function to look for these.

We choose do we really ‘choose’ here or are things somewhat automatically determined; if yes, how a set of change polygons SCP. These not only contains those objects but also their associated characteristics. For example, a SCP could contain a set of spatial clusters with polygon, their average drought score, total area, centroid coordinates and other summaries for each spatial cluster.

There are two levels of significance in polygons do you mean a single polygon, a set of polygons, or both here; if this definition refers to polygon sets:how are those sets selected?. The first is where whether they have changed sufficiently to be noticeable and the other is whether they have stayed invariant during the time period.

**I believe this writing would benefit from sound, more mathematical definitions and also giving several examples of the relevance of particular changes is determined!**

First, to detect change, we define a threshold α, which ensures that a narrative will only be generated an object p in SCP what is SCP exactly mathematically; a set of polygons, a set of sets of polygons? How does this framework deal with polygons that belong to the same and different batches? such that . Example parameters for α include should the functions listed below not binary referring to polygons or set of polygons in different, or consecutive batches?

* Largest shift in polygon centroids

Second, to detect nonmoving polygons, we define a threshold β, which ensures that a narrative will only be generated an object p in SCP such that . Example parameters for β include:

The threshold parameters need to be finely tuned to not exclude those polygons who fall through exceptions. Once we have a suitable selection of polygons and have chosen a threshold value, we can create a summary narrative.