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Visual analytical approaches to evaluating uncertainty and bias in crowdsourced crisis information

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To what degree are uncertainty and bias found in public collections of incident reports gathered during crisis events?

Uncertainty [1]
- Accuracy/error
- Precision
- Completeness
- Lineage
- Consistency
- Currency
- Subjectivity
- Interrelatedness
- Credibility

Bias [2]
- Systematic error

Hypothesis 1
There is systematic variation in the spatial accuracy of coordinate pairs in space and time.
- Geocode location strings.
- Determine associated uncertainty.
- Compare to coordinate pairs.

Hypothesis 2
Coordinate pairs cluster around systematic points.
- Density-based and distance-based point pattern analysis.
- Investigate spatial statistical analysis?

Hypothesis 3
There is systematic variation in the spatial precision of location strings in time.
- Classify location strings by relative spatial precision.
- Explore scale dependencies?

References

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