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| Challenges | | Methodology | Links/File Name @ C:\Users\Hugo\Desktop\Tese\artigos |
| Location | Spatial Progression | Clustering (K-means/ Correlation) | <https://www.tandfonline.com/doi/abs/10.1080/02522667.2020.1799512> |
| Markov Random Fields | Spatial models for point and areal data using Markov, <https://ieeexplore.ieee.org/document/8451458>  Markov is very slow |
| Conditional Random Fields | <https://dl.acm.org/doi/10.1145/2677972.2677989> slow |
| Bayesian Networks | very slow |
| Point Differentiation | Define a minimum distance between points? |  |
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| Topology | Markov Random Fields | Clustering tends to ignore topology – Is this relevant? No  <https://users.cs.cf.ac.uk/Paul.Rosin/resources/papers/MRF-ISVC.pdf> |
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| Time | Temporal Sequence |  |  |
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| Arrange Events by weight, | where weight is dependent on event lifespan and priority |
| disparate repetitions  over time |  |  |
| Event Lifespan & Archive | If event is deemed inactive or new events happen in the area, with a significant time disparity, then archive old events in the area |
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| Content | Integration of Data | Data Fusion | <https://www.tandfonline.com/doi/abs/10.1080/02522667.2020.1799512> |
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| Redundant Data | Point Differentiation |  |
| Repetitions | If events are too close to each other then merge the events into one  If images are included, create a collection of img with their specific coordinates |
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| Map | density mapping? |  |
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| Interface | Interactive Map | Clickable Event Popups |  |
| Map Zoom |  |
| Area Events by Colour Scheme |  |