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| Experiment number 1  *Give a number to my experiments, for my administration, samity and future reference - and stick to my numbering method.* |
| Date and time: 2023.02.17  Place: Gyor  *Just some administration for my future reference* |
| Main parameters  *How is this experiment different from the previous one? Is it a repeat or benchmark experiment? What is the input of the experiment?*  OPTICS Clustering on new0001\_2 dataset with max\_age=15 and mask; 6D feature vectors; threshold 0.4  OPTICS Parameters: min-samples=20, max-eps=0.1, xi=0.15  Results: n-clusters=11, n-feature-vectors=3784 |
| Changes  *Note down any changes I made in the lab with respect to drawings my made when preparing for my experiment, so that I have a record of these changes for my future reference. Note down here if a sensor is malfunctioning and cannot be trusted for the data analysis of this experiment.*  The clusters are more tight, thanks to the new 6D feature vectors. There are less noise detections ie.: parking cars, sticking trajectories. |
| Man observations  *What did I observe in my experiments? At what time during the experiment, or for which variable input value? During my experiments, my main observations are related to a discussion of the cracks that develop in concrete for a given load level.*  Max-eps parameter was lowered from 0.2 to 0.1, this seems to improve clustering on 0001\_2 dataset, results in more separated and tight clusters. |
| Reflections *Leave som open space to write out my reflections about the experiment. Here is my space for reflectation at the end of my experiment, where I can place my current work in perspective, discuss tiny details or the bigger picture, or write down loose strands of ideas that are forming in my head.*  *What did I observe that is odd and that needs further study?*  Xi parameter still a bit thick milky for me, it is hard to say how it will affect the clustering, but 0.15 seems to be working on a lot of datasets. |
| To Do list 1. Run optics clustering on Newport datasets 2.  3. 4. 5. *List things that popped into my head that I need to do prior to my next experiment, or to keep my series of experiments movig forward.* |