Assessment of the master thesis by Holger Nießner

Streaming Novelty Detection in Telemetry Data

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This is the second assessment of the thesis after improvements that were required for the second review. I will comment on the changes and improvements only.

Regarding chapter 2, I was asking for clarification w.r.t. to the recent papers on novelty detection:

Weinshall et al. Beyond Novelty Detection: Incongruent Events, When General and Specific Classifiers Disagree. IEEE Transactions on Pattern Analysis and Machine Intelligence, Volume: 34, Issue: 10, Oct. 2012.

Josef Kittler et al. Domain Anomaly Detection in Machine Perception: A System Architecture and Taxonomy. IEEE Transactions on Pattern Analysis and Machine Intelligence, Year 2014, Volume 36, Issue 5

Yet, again, none of the papers was mentioned in the thesis and no comments were added.

Regarding chapter 3, it is still verbatim equal to the previous version. There is no improvement.

Chapter 4 was most lacking on the previous version of the thesis. On the positive side, a paragraph explaining the motivation for using distributed computing was added and Chapter 4 has been split to two chapters. Still, not much new detail has been added.

New chapter 5 mostly contains the content of previous chapter 4. On the positive side, the new algorithm has been at least described in more detail and some reasoning about engineering choice has been added. I believe that it is still far below the standard of good engineering work but it at least provides the minimal information needed to repeat the work.

Chapter 6, Evaluation (previously chapter 5) has not changed. None of my previous requirements has been addressed and no improvement has been presented.

The thesis is in my opinion still not acceptable under normal situation. After half a year of additional work, only very little has been improved. At some point I was communicating to Holger that I am happier with the description of the algorithm but I assumed that more would be improved in the experimental chapter too. The thesis is really on the bottom of our scale but since it is at least become reproducible, I suggest accepting it and grade it by *grade E (sufficient)*.

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