School of Computing and Information Systems (CIS) 在 了 The University device 中 在 拥 号 COMP90073

Security Analytics exercises: Week 7

- 1. Give example the state of th
- 2. We used the following example to explain the step by step iLOF's measurements update. We included point 11 in *reachdist* update (Figure 1) but not in Ird update (Figure 2), Explain why, given *k*=2.

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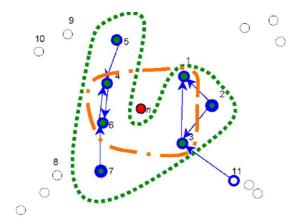
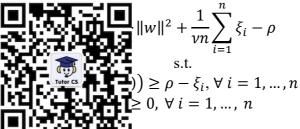


Figure 2: Ird update

- 3. In iLOF deleting a point p_i from the existing dataset *always* increases the k-distances of R_k -NN of p_i . Justify the reason
- 4. In what case performance of MiLOF resembles to iLOF?

5. In the lecture we saw flow we can be so that the same of the sa



- 6. Use OneClassSVM in Splunk to perform unsupervised outlier detection. Some useful information regarding the parameters: https://scikit-learn.org/stable/modules/generated/sklearn.svm.OneClassSVM.html
- 7. You may use LIBSVM (https://www.csie.ntu.edu.tw/~cjlin/libsvm/) for the following exercises. The web page provides the necessary information for parameter twingsignment Project Exam Help Download the KDDCOP data set from the UCI Machine Learning Repository https://archive.ics.uci.edu/ml/datasets/kdd+cup+1999+data
 - a. Use SVDD and OCSVM to identify the attacks.
 - b. How man/dath points lare before among the dentified anomalies using different methods?

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