

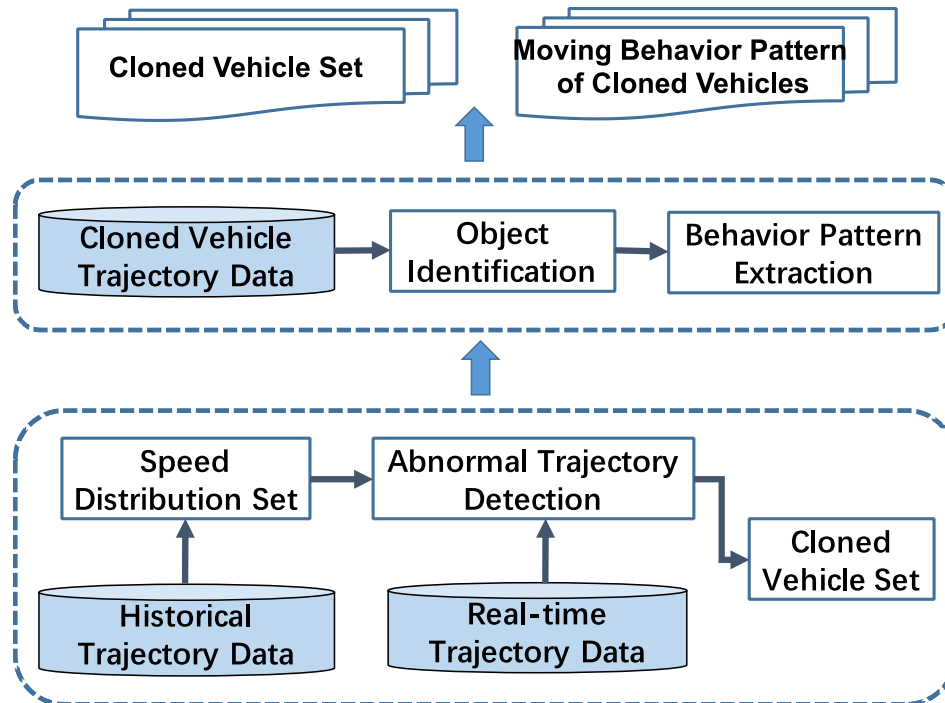
A framework for cloned vehicle detection

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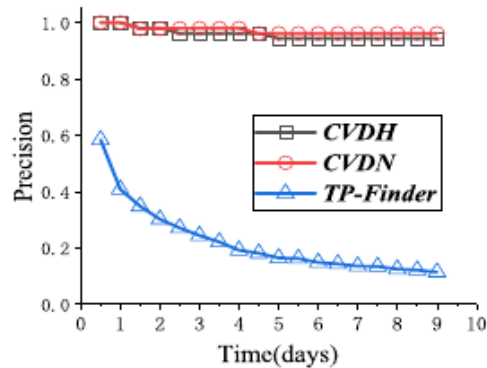
Problems & Ideas

- Identifying the vehicles with fake license plates accurately and exploring the motives through discerning the behaviors of cloned vehicles.
- Ideas: 2-stage framework
 - Detecting the cloned vehicle by incorporating speed threshold extraction upon historical trajectory with behavior abnormality analysis within the local neighborhood.
 - Differentiating the traces of various cars with the same plate number and discerning their spatial-temporal behavior patterns.

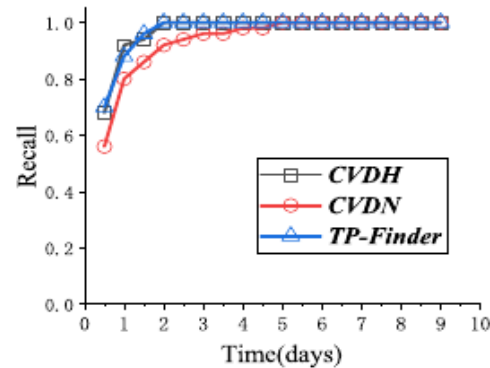


Main Contributions

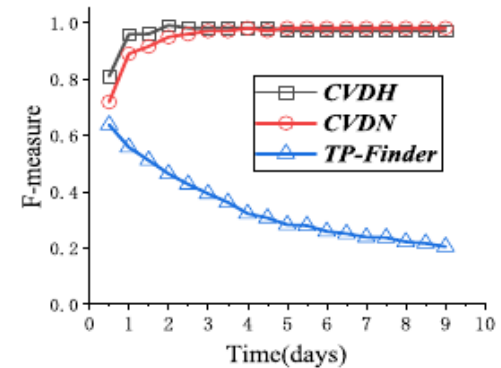
- Effectiveness comparison under different dataset



(a) Precision

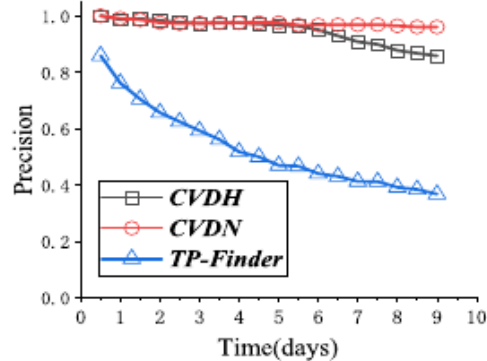


(b) Recall

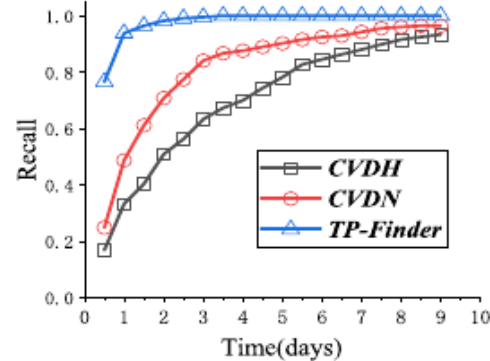


(c) F - measure

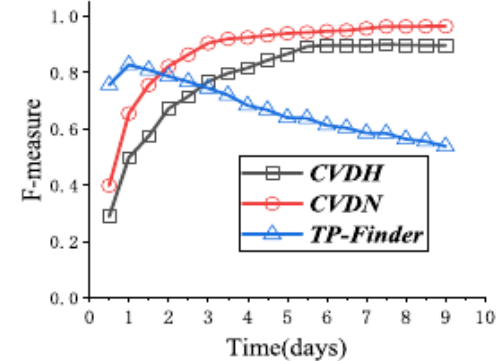
Effectiveness comparison under real world dataset



(a) Precision



(b) Recall



(c) F - measure

: Effectiveness comparison under synthetic dataset