[An Effectiveness Study on Trajectory Similarity Measures](https://pdfs.semanticscholar.org/ea12/4a962f5d56acf4c7db61d1b2238066752315.pdf)

Euclidean Distance（Lp）

特点：

* 不可以处理不等长序列
* 具有局部对称距离不变性

[Edit distance](http://www.cnblogs.com/jiabei521/p/3353390.html)

* [Edit Distance With Real Penalty](http://www-nishio.ist.osaka-u.ac.jp/vldb/archives/public/website/2004/protected/eProceedings/contents/pdf/RS21P2.PDF)

特点：

1. 可以处理不等长序列
2. 包含时间点数据

Longest Common SubSequence

给定两个字符串，求它们的最长公共子序列

特点：

* noisy trajectory data
* 不等长数据
* lead to some inaccuracy, since it does
* not consider various unmatched sequences in trajectories

[Dynamic Tim warping](http://blog.csdn.net/raym0ndkwan/article/details/45614813#1简介)

* Piecewise Dynamic Time Warping

cuts a given trajectory into c pieces, computes average as a representitive point in piece

特点：

1. 可以处理不等长序列
2. 不具有局部对称距离不变性
3. 速度不影响距离
4. 不具有平移不变性
5. 包含时间点数据

Discovering Popular Routes from Trajectories

**Markov Chain**