

Table 1: Performance comparison of different generative approaches on Porto dataset.

Methods	Density (\downarrow)	Trip (\downarrow)	Length (\downarrow)	Pattern (\uparrow)
VAE	0.0121	0.0224	0.0382	0.763
TrajGAN	0.0101	0.0268	0.0332	0.765
Diffwave	0.0106	0.0193	0.0266	0.799
Diff-LSTM	0.0092	0.0141	0.0255	0.828
DiffTraj	0.0087	0.0132	0.0242	0.847

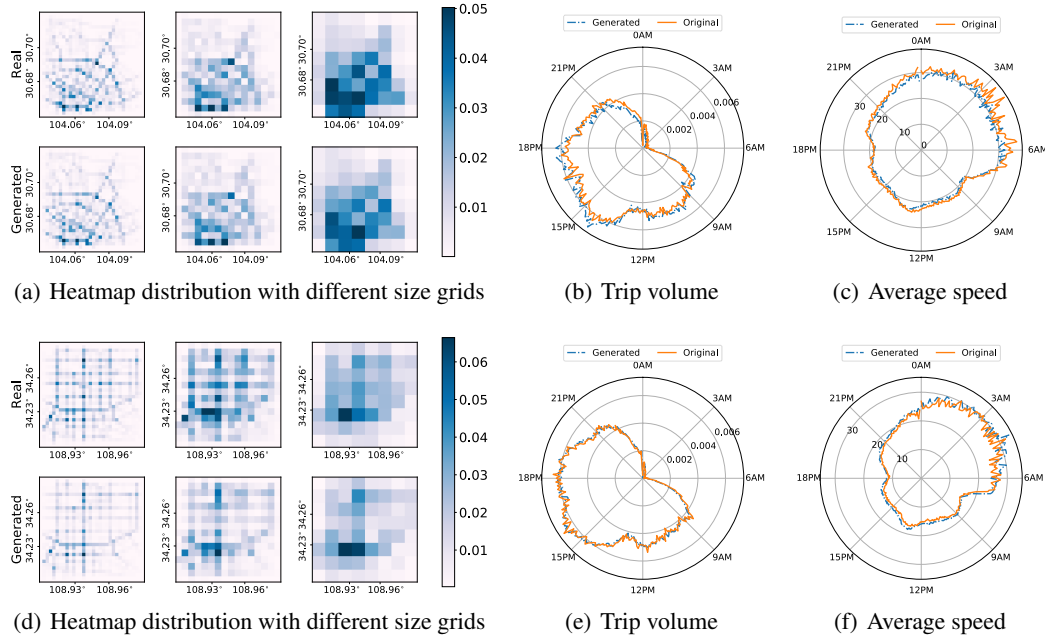


Figure 1: [Up: **Chengdu**, Down: **Xi'an**] {(a), (d)} Comparison of the real and generated trajectory distributions with different resolutions (32×32 , 16×16 , and 8×8 grids). {(b), (e)} and {(c), (f)} The changes in trip volume and average speed during a day.

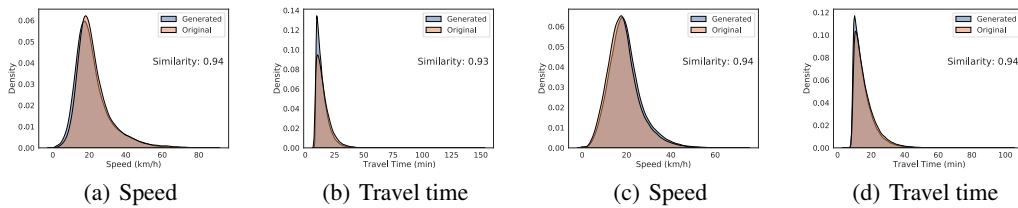


Figure 2: Comparative analysis of trajectory properties in velocity and travel time. (a) and (b) for [**Chengdu**], (c) and (d) for [**Xi'an**]. The similarity is calculated by Kolmogorov-Smirnov statistics.