

Appendix

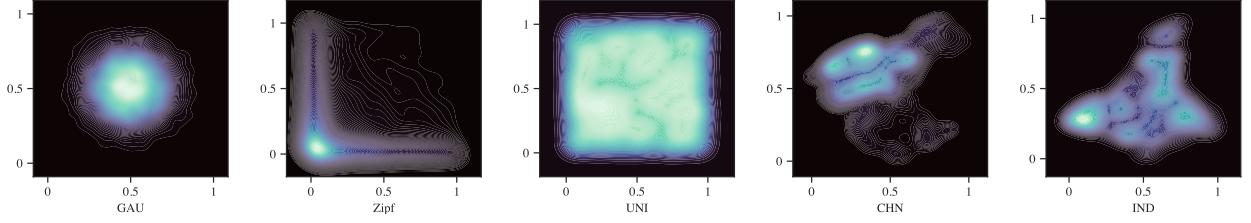


Fig. 1: Spatial distributions of the five datasets

Due to space limit, we present some minute details and relatively less important experimental results and analyses in this appendix.

A SPATIAL DISTRIBUTIONS OF THE DATASETS

The spatial distributions of the MBR center points for all datasets (GAU, Zipf, UNI, CHN, IND) are visualized in Fig. 1. All data coordinates were first linearly normalized to the $[0, 1]$ interval. For

the synthetic GAU, Zipf, and UNI datasets, each side of a hyper-rectangle is generated with a length drawn from a uniform distribution $\mathcal{U}[a, 5a]$, meaning the longest side can be at most five times the shortest. The parameter a is configured such that the expected total area of the hyper-rectangles equals half the area of the entire space.