

Semi-Supervised Locally Linear Embedding (SSLLE)

**Application & Sensitivity Analysis
of Critical Hyperparameters**



0 AGENDA FUN WITH SSLLE

- 1 Manifold learning problem
- 2 Local graph-based manifold learning (LGML)
 - 1 Taxonomy
 - 2 Concept
- 3 LGML techniques
 - 1 Unsupervised: LLE & friends
 - 2 Semi-supervised: **SSLLE**
 - 3 Challenges in application
- 4 Sensitivity analysis
 - 1 Setup
 - 2 Results
- 5 Discussion

1 PROBLEM MANIFOLD LEARNING

woteva

1 PROBLEM NOTATION

woteva

2.1 LGML TAXONOMY OVERVIEW

woteva

2.2 LGML CONCEPT GRAPHS & EIGENVECTORS

woteva

3.1 UNSUPERVISED LGML **LLE**

woteva

3.2 SEMI-SUPERVISED LGML **SSLLE**

woteva

3.3 CHALLENGES NEIGHBORHOOD RELATIONS

woteva

4.1 ANALYSIS SETUP SCENARIOS

woteva

4.1 ANALYSIS SETUP EVALUATION

woteva

4.2 ANALYSIS RESULTS **FOO**

woteva

5 DISCUSSION **FOO**

woteva