

# **Semi-Supervised Locally Linear Embedding (SSLLE)**

**Application & Sensitivity Analysis  
of Critical Hyperparameters**



# 0 AGENDA

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- 1 Problem
- 2 Local graph-based manifold learning (LGML)
  - 1 Taxonomy
  - 2 Concept
- 3 Techniques
  - 1 Unsupervised
  - 2 Semi-supervised **SSLLE**
  - 3 Challenges
- 4 Sensitivity analysis
  - 1 Setup
  - 2 Results
- 5 Discussion

# 1 PROBLEM MANIFOLD LEARNING

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# 1 PROBLEM NOTATION

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## 2 Local graph-based manifold learning

## 2.1 TAXONOMY OVERVIEW

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## 2.2 CONCEPT    GRAPHS & EIGENVECTORS

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### 3 LGML techniques



## 3.1 UNSUPERVISED LLE

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## 3.2 SEMI-SUPERVISED SSLLE

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## 3.3 CHALLENGES NEIGHBORHOOD RELATIONS

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## 4 Sensitivity analysis

## 4.1 SETUP SCENARIOS

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## 4.1 SETUP   EVALUATION

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## 4.2 RESULTS    **FOO**

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## 5 Discussion



## 5 DISCUSSION    **FOO**

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