

# **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)
- 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 LGML

## 2 LGML TAXONOMY

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## 2 LGML CONCEPT

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# 3 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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