A Survey on Trajectory Encoding Methods for Social Robots

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[Change table for 1st-encoder, 2nd-encoder ... 4th-encoder + multi-agent encoder, instead of having encoder and assistent]

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- Related works
  - Other surveys
- Different Encodings
  - mlp
  - rnn
    - lstm
    - gru
  - self-attention
  - gnn
  - cnn
  - misc
    - svms
    - pca
    - polylines (bezier curves)
    - rough path signature?
    - shapelets?
- multi-encodings [is this the same as multi-layers?]
- Multi-layer
  - attention
  - gmm
  - cnn
- Multi-Agents 1xn, nxn,

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  - max-pooling
  - gmm
  - ...
- Applications
  - Human trajectory prediction
  - Anomaly detection
  - Path planning
  -
- Human side
  - Comfort
  - safety
  - ...
- ?databases, benchmarks, simulators?

1 ABSTRACT

2 INTRODUCTION

3 RELATED WORKS

4 ENCODINGS

5 MULTI-LAYERS

6 MULTI-AGENTS

7 APPLICATIONS

8 HUMAN ASPECTS

9 DATASETS, BENCHMARKS AND SIMULATORS

10 CONCLUSIONS

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REFERENCES

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