

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 assistant]

[copy bib files to single one]

- 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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