

ONE CLASS SVM

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Abstract

Kernel principal component analysis (kernel-PCA) is a prominent non-linear extension of one of the most used classical dimensionality reduction algorithms (PCA-Principal Component Analysis). In this paper, we present an inhaustive comparison between the classical PCA and the kernel-PCA. We use the moon dataset

Keywords

Dimensionality reduction, PCA, kernel-PCA

1 INTRODUCTION

2 DIMENSION REDUC-TION

2.1 Principal Component Analysis (PCA)

2.2 Kernel Principal Component Analysis (kernel-PCA)

3 EXPERIMENTAL RE-SULT

3.1 Dataset

3.2 Performance analysis

4 CONCLUSION

References

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