

Texture Classification in Interstitial lung disease patients using Graph signal Processing approach

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Abstract—
Index Terms—

I. INTRODUCTION

II. RELATED WORK

III. METHOD

A. Graph wavelet

B. Visibility Graphs

- 1) *Natural Visibility Graphs:*
- 2) *Horizontal Visibility Graphs:*

C. Image Visibility Graphs

- 1) *INVg: Image natural visibility graph:*
- 2) *IHVG: Image Horizontal visibility graph:*
- 3) *Feature extraction* : discuss about local and global features

IV. FEATURE SELECTION

- 1) *I* , 255-*I*:
- 2) *IHVG*, *INVg*:
- 3) *Lattice*, *without lattice*:
- 4) *wavelet*:
- 5) *Final choice*: also talk about PCA analysis

V. EXPERIMENT

A. Dataset

B. Classifier

VI. RESULTS AND COMPARE

VII. CONCLUSIONS

REFERENCES

- [1] G. Eason, B. Noble, and I. N. Sneddon, "On certain integrals of Lipschitz-Hankel type involving products of Bessel functions," *Phil. Trans. Roy. Soc. London*, vol. A247, pp. 529–551, April 1955.