Insight Into Lumbar Back Pain
What the Lumbar Spine Tells About Your Life

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Keywords: My Keywords in Title Case

Abstract: The abstract should summarize the contents of the paper and should contain at least 70 and at most 200 words. The text must be set to 9-point font size.

1 INTRODUCTION

Our contributions are:

- Analyzing back pain using image-derived variables of 2,240 subjects.

- Assessing the suitability of lumbar spine shape for diagnosing back pain

- Analyzing correlations between between image-based and socio-demographic as well as medical parameters.

2 EPIDEMIOLOGICAL BACKGROUND

Background. Epidemiological Workflow, focus on statistical resilience, image data hard to analyze due to the large amount of subjects, poor image quality and lack of methods.

2.1 Back Pain

Back pain one of the most common diseases in the western civilization; hard to analyze; Epidemiologists interested in the *healthy* aging process.

3 RELATED WORK

Our own work (VIS, VMV, BVM). Sylvias paper with reference to the methods. **More information necessary here!**

4 MATERIALS AND METHOD

4.1 The Lumbar Spine Data Set

4.1.1 Image Data

4.1.2 Non-Image Data

4.2 Creating a Decision Tree using C5.0

C4.5 Algorithm for creating decision trees;

5 EXPERIMENTS

5.1 Results

6 EXPERIMENTS

7 CONCLUSION

ACKNOWLEDGEMENTS

REFERENCES

APPENDIX

If any, the appendix should appear directly after the references without numbering, and not on a new page. To do so please use the following command: *section*{APPENDIX}*