

A Report about Deep Learning on MURA Dataset

Jinchen Xuan, Xingyu Ni, Zhijian Duan

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1 Introduction

MURA is a large dataset of musculoskeletal radiographs containing 40,561 images from 14,863 studies[1], where each study is manually labeled by radiologists as either normal or abnormal.

In order to develop an effective and available algorithm, we have trained several networks and done many experiments. Here is our report.

2 Our Work

2.1 Model Training

2.2 Explanatory Analysis

2.3 Image Retrieval

3 Summary

References

- [1] Pranav Rajpurkar, Jeremy Irvin, Aarti Bagul, Daisy Ding, Tony Duan, Hershel Mehta, Brandon Yang, Kaylie Zhu, Dillon Laird, and Robyn L Ball. Mura: Large dataset for abnormality detection in musculoskeletal radiographs. 2017.