

Wisdom of the crowds for analysis of medical images

Machine learning (ML) has shown excellent results in a number of medical image analysis applications. Scans that have been manually annotated by experts can be used to train algorithms to detect structures or abnormalities in previously unseen scans. However, ML algorithms need to a lot of annotated data for learning, but the annotation process is very time-consuming. Recently, crowdsourcing – asking people on the internet to carry out tasks, like annotating images – has been proposed to deal with this problem, with varying results.



Projects may include:

- Surveying different medical imaging applications where crowdsourcing has been applied
- Analyzing already available crowdsourced annotations of airways in chest CT scans
- Developing methods for filtering out poor quality (spam) annotations

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References

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