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Deep neural models for extracting entities and relationships in the new RDD corpus relating disabilities and rare diseases

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#### ACCEPTED MANUSCRIPT

### Highlights

- New data collection (publicly available) manually annotated with disabilities.
- Collections of positive and negative relations between rare diseases and disabilities included.
- Negation and speculation affecting disabilities are also annotated.
- Deep learning models to deal with annotation of disabilities and relation extraction.
- Significant results for both models.

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