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Predicting the topics of a follow-up Astronomical Telegram using knowledge graphs and natural language processing

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We have developed an automatic pipeline to predict the topics of a follow-up ATel and to assign data-analysis workflows, that will be publicly available at <https://www.astro.unige.ch/mmoda/>. To achieve this, we have created an ontology of telescopes, observatories and instruments in order to detect them in Astronomical Telegrams. Studying the occurrences of these telescopes in the ATels, we have built a statistical model to predict a possible follow-up telescope-type (gamma-ray, x-ray etc) based on a newly published ATel. In addition, given the detected telescope-type, we suggest possible data-analysis workflows.

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Classification de Session: Contributed talks