**Term paper abstract for “Automatic Question Generation” WS**

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Graph is an extremely useful form of data representation when the data consists of instances and relationships between them. For instance, Knowledge Graph created by Google describes real-world things and how they are connected. Google involves it when performing search queries, instantly providing users with more structured and detailed information. However, I believe that there are far more ways of using the information from the Google Knowledge Graph. With the search API kindly offered by Google, everyone can access this information and apply it to their own projects.

Google Knowledge Graph is available not only in English, but also in a number of other languages, including Italian, French, Japanese and Russian. It would be very exciting to explore the Russian version of the graph and involve part of it in the project for “Automated Question Generation”.

I am going to create a quiz about one of the most interesting topics for me at the moment - about art. The instances that would be involved in the project could be divided into three main categories: art movements, works, people of art. Each group of instances has their own properties that we can ask questions about:

1. Art movements: date of beginning, artworks, period;
2. Works: author, period, date of creation;
3. People of art: date of birth/death, art movements.

As there is a limited number of properties, I think the best option would be to use question templates. For instance, the following templates could be created (here templates are provided in English; in the project Russian language will be used):

* When did [art movement] begin? (e.g. When did mannerism begin? - 1520)
* Who painted [work]? (e.g. Who painted “Madonna with the Long Neck”? - Parmigianino)
* What art period does [work] by [author] belong to? (e.g. What art period does “View of Toledo” by El Greco belong to? - Mannerism)

Moreover, some of the questions could be multiple-choice questions. It is especially useful when a question has more than one suitable answer. For example:

What art periods do works of [author] belong to?

(e.g. What art periods do works of Caravaggio belong to?

1. **Baroque**
2. Rococo
3. **Renaissance**
4. Classicism)

To conclude, developing templates for the quiz will help to avoid possible grammatical errors, and filling them with information retrieved from the Google Knowledge Graph will make questions rather varied.