

Automatic Multiple Choice Question Generation System for Semantic Attributes Using String Similarity Measures

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Abstract

This research introduces an automatic multiple choice question generation system to evaluate the understanding of the semantic role labels and named entities in a text. The system provided selects the informative sentence and the keyword to be asked based on the semantic labels and named entities that exist in the sentence, the distractors are chosen based on a similarity measure between sentences in the data set. The system is tested using a set of sentences extracted from the TREC 2007 dataset for question answering. From the experimental results, it can be induced that the semantic role labeling and named entity recognition approaches could be used as a good keyword selection mechanism. The second conclusion is that the string similarity measures proved to be a very good approach that can be used in generating the distractors for an automatic multiple choice question. Also, combining the similarity measures of different algorithms would lead to generate a good distractors.

1. Introduction

Developing Automatic Question Generation (AQG) systems became one of the important research issues because it requires insights from a variety of disciplines, including, Artificial Intelligence (AI), Natural Language Understanding (NLU), and Natural Language Generation (NLG). There are two types of question formats; multiple choice questions which asks about a word in a given sentence, the word may be an adjective, adverb, vocabulary, etc., the second format is the entity questions systems or Text to Text QG that asks about a word or phrase corresponding to a particular entity in a given sentence. In this research the first type of question formats is covered. The traditional multiple-choice question is made up of three components, where the sentence with a gap is defined as the question sentence, the correct choice (removed word) as the key, and the other alternative choices as the distractors [1].

- _____ is the current president of Egypt
(a) H.Mubarak (b) A.Elsisi (c) M.Morsi (d) A.Mansour

The above sentence is an example of multiple choice question, the underline gap represents the word or phrase that is the correct answer, the four choices represent the true answer and three distractors. This research introduces a model for a multiple choice question generator that asks about labels extracted from the given sentence using Semantic Role Labeler (SRL) and entities extracted using Named Entity Recognizer (NER). The distractors generated for the sentence are chosen based on the string similarity between the question sentence and all other sentences in the data set. The rest of the paper is organized as follows: section 2 discusses the related work of Automatic Multiple Choice Questions (AMCQ), section 3 introduces the SRL and NER in brief, section 4 provides the different string text similarity approaches, section 5 introduces the proposed model, and section 6 shows the experimental results and evaluation, and finally section 7 introduces a conclusion and future work with some remarks.

2. Related work

In this section, a review of the previous Automatic Multiple Question Generation systems for the first question type formats mentioned in section 1 is introduced.

Authors in [2] proposed an approach for AQG for vocabulary assessment; they generated 6 types of questions: definition, synonym, antonym, hypernyms, hyponym, and cloze questions. They retrieve the data from WordNet after choosing the correct sense for it. Concerning the distractor choice, the question generation system chooses distractors of the same part of speech and similar frequency to the correct answer. Four of the six computer-generated question types were assessed: the definition, synonym, antonym, and cloze questions. The percentage of questions generated for the four types were above 60% for 156 word list.

The authors of [3] introduced a prototype for an automatic quiz generation system for English text to test learner comprehension of text content and English skills. They used the semantic network to represent the relationship between a vocabulary and its context. They proposed two generators for two types of questions. The first generator is for sense comprehension of adjectives; the generator will extract adjectives from the SemNet of a given text as questionnaire vocabularies and form multiple-choice cloze questions. The right answer is substituted by the synonym or a similar adjective of the applied sense of the questionnaire adjective from WordNet. The second generator is for anaphor comprehension, a learner must integrate these subnets by connecting each anaphor with its antecedents. The generator identifies the antecedent of an anaphor and form a

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Automatic Question Generation Michael Flor, 2025-07-04 This book provides an overview of the fundamentals of Automatic Question Generation AQG for computational linguistics researchers test developers and educators The author presents a variety of AQG system architectures including generating questions from syntactic analyses semantic resources neural architectures ontologies and knowledge graphs and large language models The advantages and pitfalls of a variety of AQG evaluation methods including multi aspect ratings by human experts end users as well as crowd sourcing and automatic evaluation techniques are discussed The book also provides a roadmap of options for AQG targeted orientation content selection and focusing decisions Machine learning opportunities for training systems to generate questions based on human generated examples are also explored This book offers greater depth and breadth than previous surveys of AQG Readers will gain a comprehensive knowledge of current research examples of applications of AQG and inspiration for future directions for innovation and application

The Semantic Web: ESWC 2011 Workshops Raul Garcia-Castro, Dieter Fensel, Grigoris Antoniou, 2012-01-09 This volume constitutes the thoroughly refereed proceedings of 11 international workshops held as part of the 8th Extended Semantic Web Conference ESWC 2011 in Heraklion Crete Greece in May 2010 The 22 revised full papers presented were carefully reviewed and selected from a total of 75 submissions to the workshops during two rounds of reviewing and improvement The papers are organized in topical sections on the following workshops 1st International Workshop on eLearning Approaches for the Linked Data Age 1st Workshop on High Performance Computing for the Semantic Web 3rd International Workshop on Inductive Reasoning and Machine Learning for the Semantic Web 1st Workshop on Making Sense of Microposts 1st Workshop on Ontology and Semantic Web for Manufacturing 1st Workshop on Question Answering over Linked Data 4th International Workshop on REsource Discovery 6th International Workshop on Semantic Business Process Management 1st Workshop on Semantic Publication 1st Workshop on Semantics in Governance and Policy Modelling and 1st International Workshop on User Profile Data on the Social Semantic Web

Open Semantic Technologies for Intelligent System Vladimir Golenkov, Victor Krasnoproshin, Vladimir Golovko, Elias Azarov, 2020-10-24 This book constitutes the refereed proceedings of the 10th International Conference on Open Semantic Technologies for Intelligent System OSTIS 2020 held in Minsk Belarus in February 2020 The 14 revised full papers and 2 short papers were carefully reviewed and selected from 62 submissions The papers mainly focus on standardization of intelligent systems and cover wide research fields including knowledge representation and reasoning semantic networks natural language processing temporal reasoning probabilistic reasoning multi agent systems intelligent agents

Proceedings of the International Conference on Smart Cities - Volume 2 Hisham Mohamad, Mohd Hilmi Hasan, Said Jadid Abdulkadir, Nasir Shafiq, 2025-07-25 This book contains papers presented at the International Conference on Smart Cities ICSC 2024 under the banner of World Engineering Science 2 Blockchain and Cybersecurity 3 Artificial Intelligence AI 4 Smart Transportation

System and 5 Low Carbon Planning for Sustainable City

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