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 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, hypernym, 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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book touches upon a wide array of topics including smart grids soft computing techniques in power systems smart energy management systems and power electronics under the Electrical Engineering track and biomedical engineering antennas and waveguides image and signal processing and broad band and mobile communication under the Electronics Engineering track With special emphasis on Computer Engineering this book highlights emerging trends in computer vision pattern recognition cloud computing pervasive computing intelligent systems artificial intelligence neural network and fuzzy logic machine learning deep learning data science video processing and wireless communication This is a valuable resource for students researchers and engineers within the field of innovative research and practical applications of electrical and computer technologies **The Age of Generative Artificial Intelligence** Söz Tuana DEMİR,Nida GÖKÇE NARİN,Melih Selami SAĞCAN,Erşan EFE,Ali Abbas DOĞAN,Erdil ASLAN,Muhammet DAMAR,Melih TAKYACI,Niyazi Cenk GENEK,Bertuğ TAŞ,Selim Esad ALKAN,Arda GÜR,Enis KARAARSLAN,Ömer AYDIN,Abdülkadir AKYILDIZ,Süleyman EKEN,Fatih Emre YILDIZ,Fatih Sinan ESEN,Burcu SAKIZ,2025-07-16 In recent years the emergence of generative artificial intelligence has reshaped the boundaries of what machines can create understand and transform As editors of the book titled The Age of Generative Artificial Intelligence we present this volume to offer a comprehensive and critical view of these advancements This book brings together eight original chapters that reflect the multifaceted nature of this field and its impact across industries The opening chapter presents a holistic examination of transformer based models covering their underlying architecture practical applications and the ethical considerations they raise In the second chapter readers explore how AI tools especially large language models are being integrated into primary health care improving service delivery and patient outcomes Our third chapter turns to the digital media landscape analyzing how AI particularly generative models is transforming content production audience engagement and media personalization From automated video and audio processing to dynamic content generation using tools like ChatGPT and Writesonic this chapter highlights both the efficiencies and the ethical dilemmas emerging in the age of AI powered media In the fourth chapter the creative potential of text to video generation is explored through models such as OpenAI s Sora Stable Diffusion and Lumiere showcasing the rapid evolution of multimodal generative capabilities Chapter five focuses on the intersection of raw data and intelligent query generation emphasizing the critical role of human validation to ensure reliability in AI driven workflows Chapter six addresses the increasing challenge of detecting AI generated content It offers a detailed evaluation of the current landscape of detector technologies highlighting their limitations and the implications for digital trust The seventh chapter delves into the complexities of agentic AI exploring the risks of autonomous behavior in artificial systems and raising essential questions of control responsibility and accountability Finally the eighth chapter proposes a structured taxonomy of risks related to model deployment and data integrity equipping readers with a practical framework to navigate the threats associated with widespread AI adoption Published by zmir Akademi Derne i Izmir Association Academy as part of the Future Tech Horizon

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