

# 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].

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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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*Distributed Computing and Intelligent Technology* Raju Bapi, Sandeep Kulkarni, Swarup Mohalik, Sathya Peri, 2022-01-18 This book constitutes the proceedings of the 18th International Conference on Distributed Computing and Intelligent Technology ICDCIT 2022 held in Bhubaneswar India in January 2021 The 11 full papers presented together with 4 short papers were carefully reviewed and selected from 50 submissions There are also 4 invited papers included The papers were organized in topical sections named invited papers distributed computing and intelligent technology *Advances in Big Data and Cloud Computing* J. Dinesh Peter, Amir H. Alavi, Bahman Javadi, 2018-12-12 This book is a compendium of the proceedings of the International Conference on Big Data and Cloud Computing It includes recent advances in the areas of big data analytics cloud computing internet of nano things cloud security data analytics in the cloud smart cities and grids etc This volume primarily focuses on the application of the knowledge that promotes ideas for solving the problems of the society through cutting edge technologies The articles featured in this proceeding provide novel ideas that contribute to the growth of world class research and development The contents of this volume will be of interest to researchers and professionals alike

**Hybrid Intelligent Systems** Ajith Abraham, Tzung-Pei Hong, Ketan Kotecha, Kun Ma, Pooja Manghirmalani Mishra, Niketa Gandhi, 2023-05-24 This book highlights the recent research on hybrid intelligent systems and their various practical applications It presents 97 selected papers from the 22nd International Conference on Hybrid Intelligent Systems HIS 2022 and 26 papers from the 18th International Conference on Information Assurance and Security which was held online from 13 to 15 December 2022 A premier conference in the field of artificial intelligence and machine learning applications HIS IAS 2022 brought together researchers engineers and practitioners whose work involves intelligent systems network security and their applications in industry Including contributions by authors from over 35 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering *Advances in Electrical and Computer Technologies* Thangaprakash Sengodan, Sanjay Misra, Murugappan M, 2025-07-04 This book comprises a selection of papers presented at the Sixth International Conference on Advances in Electrical and Computer Technologies ICAECT 2024 It compiles groundbreaking research and advancements in the field of electrical engineering electronics engineering computer engineering and communication technologies The book touches upon a wide array of topics

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*Technology in Education. Innovations for Online Teaching and Learning* Lap-Kei Lee, Leong Hou U, Fu Lee Wang, Simon K. S. Cheung, Oliver Au, Kam Cheong Li, 2020-12-16 This book constitutes extended papers from the 5th International Conference on Technology in Education ICTE 2020 held in August 2020 Due to the COVID 19 pandemic the conference was held online The 30 papers presented in this volume were carefully reviewed and selected from 79 submissions They are organized in topical sections on instructional technology learning analysis and assessment learning environment open and collaborative learning technology and education

**Smart Learning for A Sustainable Society** Chutiporn Anutariya, Dejian Liu, Kinshuk, Ahmed Tlili, Junfeng Yang, Maiga Chang, 2023-09-11 This book collects the proceedings of the 7th International Conference on Smart Learning Environments ICSLE2023 held in Bangkok Thailand as a hybrid conference from 31st Aug to 1st Sep 2023 The proceedings focus on the interplay between pedagogy and technology and their fusion towards the advancement of smart learning for a sustainable society This book covers topics such as artificial intelligence AI and smart technologies in education innovative applications of smart learning pedagogy learning approaches and instructional design online and digital learning spaces and lessons learned from the COVID 19 pandemic It serves as a useful reference for stakeholders in the field of education who are interested in emerging technologies and their applications in smart learning such as researchers postgraduate students undergraduate students as well as policy makers

**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 series this book seeks to inform challenge and inspire all who are engaged with the present and future of generative technologies

*Understanding Assessment in Medical Education through Quality Assurance* Bunmi S Malau-Aduli, Richard Hays, Cees P. M. Van Der Vleuten, 2021-09-17 Optimize your assessment processes through Quality Assurance This is a ground breaking guide to ensuring quality assurance in the movement toward competency based medical education With the increasing globalization of medical education comes the need for mutual recognition of quality and standards *Understanding Assessment in Medical Education through Quality Assurance* compiles and shares best practices from leading programs from around the globe Authoritative approaches and processes that have been tested and refined show how to implement quality assurance of written performance and workplace based assessments in medical education while maintaining regulatory standards As leading experts in the medical education world on this issue the authors provide specific suggestions and showcase how their methods can be implemented with representative case studies Medical educators and their students will benefit from this suite of evidence based QA processes that they can immediately put into action for monitoring and ensuring continuous quality improvement Content highlights The value of quality assurance QA and the role of QA assessors in assuring the quality of assessment International best practices in relation to quality assurance of programs of assessment both within academic institutions and at national international accreditation levels Quality assurance of Performance based workplace based written and programmatic assessment The role of technology in the quality assurance of assessment processes Approaches for assuring equivalence of assessment across diverse settings The ways in which medical education has changed in response to the disruption caused by the COVID 19 pandemic

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