



# ALICE: A Natural Language Question Answering System Using Dynamic Attention and Memory

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**Abstract.** With the growing amount of textual information in recent years, it has become quite challenging to keep up with content produced by humans. Many models have been proposed that can perform reading comprehension on a variety of texts; however, past models either excel at information retrieval on complex texts or inference on simple texts. In this paper, we propose a model called ALICE that can perform information retrieval as well as inference tasks on any text. It is scalable to any document size and can be used to aid professionals in quickly finding answers to their problems using natural language queries. We will explore how ALICE achieves this and test it on some common datasets.

**Keywords:** Language · Processing · Reading · Comprehension · Attention  
Memory · Question · Answer

## 1 Introduction

In recent years, many models have been developed that can perform reading comprehension. Most recent models utilize deep learning techniques augmented with attention and memory mechanisms [1, 2] to decode answers from the encoded questions and documents [1, 3]. Many models either use information retrieval or inference techniques to find answers. However, current state-of-the-art models still face a decline in accuracy when processing larger and more complex text documents [3–6]. In this paper, we introduce a new approach towards text comprehension by utilizing predictive word embeddings, matched attention and external memory. Our proposed model can handle any document size due to its expandable architecture. Additionally, we predict the semantic relationship of out-of-vocabulary (OOV) and rare words, thereby, allowing us to generate significantly more accurate vector based word embeddings. End to end training is also possible with this model because the entire model is differentiable. The general architecture of this model can be expanded to applications beyond reading comprehension, such as, sentiment classification, image captioning and machine translation.

# Dynamic Memory Network On Natural Language Question Answering

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## **Dynamic Memory Network On Natural Language Question Answering:**

Computer Vision Jinfeng Yang, Qinghua Hu, Ming-Ming Cheng, Liang Wang, Qingshan Liu, Xiang Bai, Deyu Meng, 2017-11-29 This three volume set CCIS 771 772 773 constitutes the refereed proceedings of the CCF Chinese Conference on Computer Vision CCCV 2017 held in Tianjin China in October 2017 The total of 174 revised full papers presented in three volumes were carefully reviewed and selected from 465 submissions The papers are organized in the following topical sections biological vision inspired visual method biomedical image analysis computer vision applications deep neural network face and posture analysis image and video retrieval image color and texture image composition image quality assessment and analysis image restoration image segmentation and classification image based modeling object detection and classification object identification photography and video robot vision shape representation and matching statistical methods and learning video analysis and event recognition visual salient detection *RITA 2018* Anwar P. P. Abdul Majeed, Jessnor Arif Mat-Jizat, Mohd Hasnun Arif Hassan, Zahari Taha, Han Lim Choi, Junmo Kim, 2019-06-15 This book gathers the Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications RITA 2018 Reflecting the conference's main theme Robotics and Machine Intelligence Building Blocks for Industry 4.0 it features relevant and current research investigations into various aspects of these building blocks The areas covered include Instrumentation and Control Automation Autonomous Systems Biomechatronics and Rehabilitation Engineering Intelligent Systems Machine Learning Robotics Sensors and Actuators and Machine Vision as well as Signal and Image Processing A valuable asset the book offers researchers and practitioners a timely overview of the latest advances in robot intelligence technology and its applications *Visual Question Answering* Qi Wu, Peng Wang, Xin Wang, Xiaodong He, Wenwu Zhu, 2022-05-13 Visual Question Answering VQA usually combines visual inputs like image and video with a natural language question concerning the input and generates a natural language answer as the output This is by nature a multi disciplinary research problem involving computer vision CV natural language processing NLP knowledge representation and reasoning KR etc Further VQA is an ambitious undertaking as it must overcome the challenges of general image understanding and the question answering task as well as the difficulties entailed by using large scale databases with mixed quality inputs However with the advent of deep learning DL and driven by the existence of advanced techniques in both CV and NLP and the availability of relevant large scale datasets we have recently seen enormous strides in VQA with more systems and promising results emerging This book provides a comprehensive overview of VQA covering fundamental theories models datasets and promising future directions Given its scope it can be used as a textbook on computer vision and natural language processing especially for researchers and students in the area of visual question answering It also highlights the key models used in VQA

**Multimodal Large Models** Liang Lin, Yang Liu, 2026-02-10 This book focuses on the new paradigm of artificial intelligence and systematically introduces the key technologies foundational models and typical applications of multimodal

large models To make the technical content more accessible for lower year undergraduate students and newcomers to the AI field the book presents each key technical point in an easy to understand manner and provides numerous intuitive examples It deeply analyses the structure and technology of several classic multimodal large models The aim is to offer readers a clear guide to the technical methods open source platforms and application scenarios of multimodal large models as well as to provide insights into achieving general artificial intelligence including cutting edge technologies such as causal reasoning world models embodied intelligence and multi agent systems The book aspires to provide a clear perspective for both academia and industry helping AI researchers gain a more comprehensive understanding of multimodal large model technologies and the development directions of the next generation of artificial intelligence The book is divided into five chapters Chapter 1 explores the most representative large model structures in depth Chapter 2 provides a thorough analysis of the core technologies of multimodal large models Chapter 3 introduces several representative multimodal large models Chapter 4 delves into three typical applications visual question answering AI generated content AIGC and embodied intelligence Chapter 5 discusses feasible approaches to achieving general artificial intelligence This book is suitable not only as a textbook for senior undergraduate and graduate students in relevant university programs but also as an essential reference for IT professionals The Chinese version of this book has been selected for the undergraduate textbook series at Sun Yat sen University The translation was done with the help of artificial intelligence A subsequent human revision was done primarily in terms of content

**Computer Vision - ECCV 2018** Vittorio Ferrari, Martial Hebert, Cristian Sminchisescu, Yair Weiss, 2018-10-06 The sixteen volume set comprising the LNCS volumes 11205 11220 constitutes the refereed proceedings of the 15th European Conference on Computer Vision ECCV 2018 held in Munich Germany in September 2018 The 776 revised papers presented were carefully reviewed and selected from 2439 submissions The papers are organized in topical sections on learning for vision computational photography human analysis human sensing stereo and reconstruction optimization matching and recognition video attention and poster sessions

**Representation Learning for Natural Language Processing** Zhiyuan Liu, Yankai Lin, Maosong Sun, 2023-08-23 This book provides an overview of the recent advances in representation learning theory algorithms and applications for natural language processing NLP ranging from word embeddings to pre trained language models It is divided into four parts Part I presents the representation learning techniques for multiple language entries including words sentences and documents as well as pre training techniques Part II then introduces the related representation techniques to NLP including graphs cross modal entries and robustness Part III then introduces the representation techniques for the knowledge that are closely related to NLP including entity based world knowledge sememe based linguistic knowledge legal domain knowledge and biomedical domain knowledge Lastly Part IV discusses the remaining challenges and future research directions The theories and algorithms of representation learning presented can also benefit other related domains such as machine learning social network analysis

semantic Web information retrieval data mining and computational biology This book is intended for advanced undergraduate and graduate students post doctoral fellows researchers lecturers and industrial engineers as well as anyone interested in representation learning and natural language processing As compared to the first edition the second edition 1 provides a more detailed introduction to representation learning in Chapter 1 2 adds four new chapters to introduce pre trained language models robust representation learning legal knowledge representation learning and biomedical knowledge representation learning 3 updates recent advances in representation learning in all chapters and 4 corrects some errors in the first edition The new contents will be approximately 50% compared to the first edition This is an open access book

**Pattern Recognition and Computer Vision** Zhouchen Lin,Liang Wang,Jian Yang,Guangming Shi,Tieniu Tan,Nanning Zheng,Xilin Chen,Yanning Zhang,2019-10-31 The three volume set LNCS 11857 11858 and 11859 constitutes the refereed proceedings of the Second Chinese Conference on Pattern Recognition and Computer Vision PRCV 2019 held in Xi an China in November 2019 The 165 revised full papers presented were carefully reviewed and selected from 412 submissions The papers have been organized in the following topical sections Part I Object Detection Tracking and Recognition Part II Image Video Processing and Analysis Part III Data Analysis and Optimization *Interaction in Information Systems* Alina Vickery,Nicholas J. Belkin,Natalie Mitev,1985 *Documentation Abstracts* ,1995 **Computer Processing of Natural Language** Gilbert K. Krulee,1991 The book explores two aspects of linguistic analysis The first concerns the grammars that describe and generate sentences The second deals with processing and computation and demonstrates why a language s grammar has important implications for the way in which it can be processed **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1985 Issues for 1973 cover the entire IEEE technical literature **Handbook of Pragmatics** Jef Verschueren,Jan-Ola Östman,Jan Blommaert,1995 **Journal of the Institution of Electronics and Telecommunication Engineers** ,1988 **Comprehensive Dissertation Index** ,1989 **Encyclopedia of Artificial Intelligence** Stuart Charles Shapiro,1992 **Research and Development in Information Retrieval** Jennifer J. Kuehn,1983 [NeuralSource](#) Philip D. Wasserman,Roberta M. Oetzel,1990 Derived from the database Neural Base still available at 495 00 this bibliography covering more than 4 000 references is an important collection of research information Extensive annotations have been added to approximately 75% of the entries in the print version Periodicals private reports and books are included Indexed by author keyword and publication Neurons were slacking off when A mathematical theory was indexed under A Annotation copyrighted by Book News Inc Portland OR **IJCAI** ,1973 [First Conference of the European Chapter of the Association for Computational Linguistics](#) Association for Computational Linguistics. European Chapter. Conference,1983 **Resources in Human-computer Interaction** ,1990

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