

Multiple Information Reconstruction Algorithm Based on the Dissemination Network Model of Asian Classical Works Intertranslation Robotics in Thailand

Binfang Li
Foreign Language College
Qujing Normal University
Qujing, Yunnan, China, 655000

Abstract: This paper analyzes and compares the quality of translations of literary works through the analysis and comparison of several machine translation software in common use at present, understands the development status and level of machine translation, and then classifies and summarizes the existing information dissemination models. By comparing the differences between traditional social networks and blockchain social networks and analyzing the information dissemination mode, this paper discusses the shortcomings of machine translation in literary works, and looks forward to the development trend and direction of machine translation in the context of artificial intelligence. A generalized model of social reinforcement is proposed. The results of numerical experiments show that the generalized model proposed in this paper has a good explanation for the complex infection mechanism, and the optimal proportion of the number of seed nodes can promote the information dissemination based on the complex infection mechanism.

Keywords: Multiple Information Reconstruction, Dissemination Network Model, Classical Works Intertranslation, Intertranslation Robotics

1. INTRODUCTION

With the introduction of the "New Generation Artificial Intelligence Development Plan", different fields of artificial intelligence have achieved explosive development, and machine translation [1], as its sub-field, has made rapid progress, from rule-based machine translation to the current neural network-based machine translation. However, users on existing social networks have strong anonymity [2], public opinion spreads recklessly, spreads fast and spreads widely, the source of information is unknown, and the information released by [3] users is difficult to distinguish between true and false during the process of dissemination, which is very likely to lead to rumors. Generation and dissemination, affect people's correct cognition and generate negative public opinion, thus affecting the development of individuals, countries and societies [4].

The Conference on Dialogue of Asian Civilizations held in Beijing in mid-May 2019 set off a heated discussion on mutual learning among civilizations [5]. In his keynote speech at the opening ceremony of the conference, President Xi Jinping pointed out: "The splendid Asian civilization has written a splendid chapter in the history of the development of world civilization [6], and human civilization has become more splendid because of Asia. Traditional wireless network technology is affected by slow transmission rates or low transmission rates. Due to the influence of factors such as the formation of coverage scale [7], it is impossible to provide video communication services anytime and anywhere, which has always limited the application of wireless network technology in the field of wireless remote monitoring. This article takes the classic literary work "A Tale of Two Cities" as an example [8], and selects some classic. The example compares machine translation and human translation, analyzes the shortcomings of machine translation under the current development level [9], and looks forward to the prospects and directions of machine translation development in the context of artificial intelligence [10].

As a new generation of revolutionary technology, blockchain technology has the characteristics of decentralization, immutability [12], autonomy, etc. It has certain feasibility and effectiveness for solving the data privacy and trust problems of traditional social networks. Decentralization ensures user data security. It has gradually become an important media for users to maintain and establish social relations [13], obtain information and disseminate information. According to the financial report of the company where the above application is located, as of December 31, 2014, the number of monthly active users of Facebook, which was established in 2004, has reached [14] 1.39 billion, making it the largest social media in the world, and its daily traffic was once larger than that of Google. Twitter, established in 2006, from religion to philosophy [15], from morality to law, from literature to painting, from drama to music, from cities to villages, Asia has formed a wide range of secular etiquette, and wrote immortality that has been passed down for thousands of years [16]. The masterpieces have left behind exquisite and profound artistic treasures, and formed a variety of institutional achievements, providing the world with a wealth of civilization choices [17].

Due to its own characteristics, tacit knowledge is difficult to spread. Tacit knowledge is implicit in people's social relations, and the process of acquiring it is also highly dependent. Therefore [18], tacit knowledge is the source of enterprise competition. Artificial intelligence (AI), also called machine intelligence, is a branch of computer science used to describe machines [19] that mimic the cognitive functions associated with the human mind. From a practical point of view: the decentralization and encryption characteristics of the blockchain can solve [20] the problem of security and privacy. Since the information data is recorded on the chain, users can control the data by themselves [22], which ensures the authenticity and credibility of the information. The platform data is stored in a decentralized manner, and the content cannot be modified, preventing users from publishing information at will [23].

His speech was greatly resonated by scholars and media people from all over the world, which also attracted the attention of some scholars to various translation projects and foreign translation book publishing projects. The Chinese-Arab classic translation project that the author has participated in is one of them [24].

2. THE PROPOSED METHODOLOGY

2.1 The Robotics for Intertranslation of Asian Classics

The term "artificial intelligence" was first coined by senior computer scientist John McCarthy at a symposium held at Dartmouth College in the summer of 1956, which was considered the hallmark of the founding of artificial intelligence. This mutual translation project can be said to be a concrete measure for dialogue among Asian civilizations and mutual learning among human civilizations. It started from the China-Arab States Cooperation Forum. Shortly after the establishment of the China-Arab States Cooperation Forum, in the process of performing tasks, operators often need to view the real-time position information of the robot on the map in an intuitive way, and use the information provided by the map database to understand the surrounding environment of the actuator, which is convenient for operation. The personnel can grasp the current approximate position of the actuator in real time. After heated discussions at the ministerial meeting of the forum, the Chinese representatives of the Ministry of Culture, the Ministry of Foreign Affairs and the Press and Publication Administration and the Arab representatives of the League of Arab States recognized the importance of classic translation for people-to-people exchanges. Artificial intelligence has entered its first cold winter. In the 1980s, enterprises around the world adopted an artificial intelligence program called "expert system". The alliance chain is jointly initiated and maintained by member institutions, and the bookkeeping nodes are selected in advance to participate in the consensus verification process, so it is part of the Decentralization, other nodes joining the network can also conduct transactions and data queries but have no right to keep accounts. Typical applications are Hyperledger, R3 Alliance, etc. In order to be able to elucidate the basic network characteristics of knowledge dissemination network theoretically.

This paper considers to refer to the existing research results as much as possible as a reference for analyzing and discussing some measurable indicators of knowledge dissemination networks. Machine translation, commonly known as machine translation, is a subfield of computer linguistics. Translate from one natural language (source language, target language) to another natural language. Third world countries, including Arab countries.

2.2 The Network Model for the Dissemination of Classic Works In Thailand

In the financial field, global banking giants have formed the R3 alliance to jointly develop blockchain technology. Many financial institutions in the world have also begun to conduct layout and research on blockchain [16], and Nasdaq has also launched a securities trading platform based on blockchain technology, want to know about China's reform achievements, China's development experience, and the Chinese people and Chinese culture, but they find that they can't find information about China, Chinese people and Chinese culture in their cultural market. Books on Chinese culture. The third is that

there will be smart contracts in the blockchain technology to execute transactions between users, so that the disseminated information can be traced back after being uploaded to the chain, which ensures that the information is not tampered with and improves the transparency between users. The attractiveness of information represents The attractiveness of the information content itself to the user, the larger the value, the stronger the attractiveness of the information, and the greater the probability of spreading the information when the user initially contacts the information. The weight coefficient W is used to represent the proportional distribution of individuals affected by the information itself and social reinforcement when disseminating information.

In order to describe the structure of the knowledge dissemination network more accurately, this paper draws on the relatively mature algorithm ideas to construct a social network of nodes. The main idea is as follows: Given a node, the dimensional social relationship network formed by it can be expressed as a matrix. A social network is usually a complex network with users as nodes and various relationships between users as edges, and the relationship between users. Friendships and follower relationships that can be established for following, liking, commenting, etc. The blockchain social network is a scale-free network. The main function of the control subsystem is to realize the control of the actuator motor and electric pan/tilt by the operator through the monitor human-machine interface, so that the remote robot can complete the movement and turning in real time. , stop, and rotate the camera within two degrees of freedom. The Sino-Arab classic translation project originated from the third ministerial meeting of the China-Arab States Cooperation Forum on May 21, 2008.

2.3 The Multiple Information Reconstruction Algorithm for Propagation Network Model

The good news is that, inspired by the mutual translation project of Chinese and Arab classics, two countries, Kuwait and Saudi Arabia, have signed mutual translation agreements with China. On June 3, 2014, under the joint witness of Chinese Premier Li Keqiang and Kuwait Prime Minister Jaber, considering the hardware performance factors of the prototype system, the monitors and actuators of the current prototype system are not equipped with equipment that can support hardware encoding and decoding. Therefore, in the video encoding and decoding process, both the monitor and the executor can only process the video signal through software, and the complex video encoding and decoding algorithm occupies a huge amount of resources.

$$\text{cov}(i) = \sum_{k=1}^u p_{ik} \quad \text{???? ???? (1)}$$

$$\text{entropy}(s) = -\sum_{i=1}^u p_i * \log p_i \quad \text{?? (2)}$$

According to the view of structural functionalism, the structure of social network will directly affect the realization and efficiency of related functions. In order to describe the structure of the knowledge dissemination network more accurately, this paper draws on the relatively mature algorithm ideas to construct a social network of nodes. The main idea is as follows: It shows the information dissemination mode and process in the blockchain social

network. There are 8 nodes in the network, which are $V_1, V_2, V_3, V_4, V_5, V_6, V_7, V_8$. Among them, V_1 and V_5 have more credit asset value. During the initial dissemination process, V_1 is used as the creator to publish information, that is, V_1 is the initial dissemination node of the information.

3. CONCLUSIONS

There are still some deficiencies in the translation quality of machine translation, but it cannot be denied that the translation quality of current neural network-based neural machine translation has been qualitatively improved compared with traditional machine translation systems. Attract more countries to participate in wider and deeper exchanges and mutual learning, and become a guide for the world cultural market, consciously arousing readers' interest in reading multiple civilizations. The construction of this model is mainly based on the relevant results of data analysis of online social network information dissemination.

4. REFERENCES

- [1] Long Xiaolin. Research on multi-robot system based on network model [D]. Zhejiang University, 2007.
- [2] Han Wei, Zhang Xiongwei, Zhang Wei, et al. Lecture 3 Classical network models and training methods in deep learning [J]. Military Communication Technology, 2016, 37(1):8.
- [3] Yang Yunpeng, Fan Chongjun, Yang Jianzheng, et al. Multilayer Network Rumor Propagation Model Based on Official Information Control [J]. Computer Application Research, 2018, 35(5):5.
- [4] Zhang Zhe. Research on a cloud network model of scientific research information sharing and dissemination based on peer-to-peer structure [J]. 2022(7).
- [5] Kuang Wenbo, Wu Xiaoli. Model Construction and Information Governance of Internet Rumors in Major Public Health Events—Based on Rumors Analysis of Novel Coronavirus Pneumonia [J]. Modern Communication: Journal of Communication University of China, 2021, 43(10):10.
- [6] Huang Shoumeng. Research on knowledge dissemination of blended teaching based on super network model [J]. Information and Computer, 2019(5):3.
- [7] Li Wenguang, Pei Yongzhen, Zhang Wenwen. Network rumor propagation model based on information aging and rumor refutation measures [J]. Journal of Harbin University of Commerce: Natural Science Edition, 2018, 34(4):7.
- [8] Li Wenhua, Yang Zining, Wang Laigui. Humanoid robot imitation learning control method based on coupling algorithm [J]. China Mechanical Engineering, 2017, 28(14):7.
- [9] Hua Kangmin. Research on super network model based on new media information dissemination [D]. Zhengzhou Aviation Industry Management College.
- [10] Wang Nan. Research on fault diagnosis method of rotating machinery based on convolutional neural network and multi-information fusion [D]. Xi'an University of Architecture and Technology.
- [11] Huang Shoumeng. Research on knowledge dissemination of blended teaching based on super network model [J]. 2022(5).
- [12] Zheng Jianxing, Li Deyu, Liang Jiye. A product recommendation method based on heterogeneous double edge information network translation model: CN111737591A[P]. 2020.
- [13] Zhang Zhe. Research on a cloud network model of scientific research information sharing and dissemination based on peer-to-peer structure [J]. Information Exploration, 2013(7):4.
- [14] Liu Yufeng, Zhi Huanhuan, Zhou Yuxin. Kernel Reconstruction Algorithm and Propagation Model for Maximizing Social Network Influence [J]. 2022(6).
- [15] Gao Qi. Practical exploration of international cooperation in Sino-Thai vocational education under the background of "One Belt, One Road"—Taking the Thai teacher training of industrial robotics in Sichuan Engineering Vocational and Technical College as an example [J]. International PR, 2019(9):2.
- [16] Liu Yufeng, Zhi Huanhuan, Zhou Yuxin. Kernel Reconstruction Algorithm and Propagation Model for Maximizing Social Network Influence [J]. Computer Applications and Software, 2018, 35(6):7.
- [17] Wang Bingda. Research on dynamic parameter identification of reconfigurable robot based on neural network [D]. Tianjin University of Technology.
- [18] Pan Rong, Wei Huiqin. Optimization algorithm and improvement of network information reconstruction model [J]. Computer Engineering and Applications, 2009, 45(12):3.
- [19] Zhang Zhiping, Gao Fuan. The basic characteristics, potential risks and coping strategies of art communication in the era of artificial intelligence [J]. Art Communication Research, 2021(3):9.
- [20] Liu Bin. The Conflict and Integration of Technology and Ethics: Reconstruction and Countermeasures of News Ethics in the Age of Algorithmic News [J]. Journal of Southwest University for Nationalities: Humanities and Social Sciences, 2022, 43(3):9.
- [21] Tan Tian. User-Algorithm-Metaverse—Three Communication Revolutions of the Internet [J]. News Enthusiasts, 2022.
- [22] Jiang Ran. Research on key technologies of Internet of Vehicles data sharing based on consortium blockchain.
- [23] Wang Dongxing. Research on the key technologies for constructing physically unclonable functions by dynamically reconfiguring computing arrays.
- [24] An Jian. Research on channel estimation and passive beamforming technology for reconfigurable smart surfaces..