

"Internet +" Era, the Future Development Trend of Online Education

Xinglan Wang^{1, a}, Dongmei Wang^{2, a}

¹ College of computer science and technology, Beihua University, Jilin, Jilin, China

² College of computer science and technology, Beihua University, Jilin, Jilin, China

^a2212928446@qq.com, ^b4018759@qq.com

*corresponding author

Keywords: Online Education; Offline Education; Internet; Hybrid Learning

Abstract: The rise of online education makes a large-scale online open curriculum appear, so that talent training can't be limited by region and time, but also fully mobilize the learner's learning initiative, and open up a new situation for talent training. In online teaching, we also find many defects that can't achieve offline teaching effect, such as interactivity, monitoring and evaluation of learning effect, etc. And in the era of "Internet + education", reasonable use of Internet information acquisition, analysis, processing ability and other advantages to assist teaching, so that online education and offline education are integrated with each other, mixed learning will become the trend of future education.

The emergence of the Internet has profoundly affected our lives, but also in the moment to affect our education. As long as there is a network, you can consult any information at the first time, and the traditional face-to-face classroom teaching mode, that is, offline education, is constantly innovating with the changes of the times.

With the rise and development of online education, because it has many advantages, such as network speed, network resources, breaking through the limitation of time and space, and opening up educational resources, it has gradually solved the contradiction between supply and demand of educational resources, the single traditional teaching mode and the uneven distribution of educational resources [1].

For education, the form of online education is not the most important, the most important is its essence. online or offline education is the most important effect, the establishment of quality closed-loop learning service system, so that the learning process becomes happier, and the use of big data technology will make learning easier.

1. Current Situation of Online Education

Online education, that is, E-learning, is a network-based learning behavior, through the online education platform for teaching anytime and anywhere. It was in its infancy in the period 1990-2000, mainly in multimedia distance teaching. while in the period 2000-2010, it was the first development period of online education, during which many online educational institutions were established one after another, forming a digital education model based on video courseware. Between 2011 and 2014, online education entered its second development period, that is, "Internet + education" period, online education began to be valued by Internet giants, emerging Internet education enterprises entered the city, Internet online education platforms and institutions opened live online education models. Since 2015, with the emergence of mobile education, intelligent education, online education has gradually developed to "artificial intelligence + education". According to the Statistical report on the Development of the Internet in China, as of 2019, the number of online education users in China has reached 232 million, accounting for 27.2% of the total number of Internet users, and online learning has been gradually accepted by everyone [2].

2. Advantages of online education

Online education conforms to the development of the Internet, for the traditional education and training institutions, online education with the advantages of big data, personalized to make up for the lack of fixed-point fixed-time people in offline courses, but also can break the space-time limit of offline education, improve the efficiency of teaching. Its main features can be summarized as follows:

2.1 Not limited by position

The overall development of online education enables people to study directly at home, reducing the cost of space [3]. Learners are not only learning, more prominent is "mobile ", it is different from the traditional learning is that learners do not have to sit in the classroom to learn. But in any place can be assisted by mobile devices to maximize the effectiveness of learning, learning on the Internet, really do not go out to learn all over the world.

2.2 Self-dispatch Time Review

One of the greater advantages of online education over offline education is that online education also supports after-school revisiting. When a certain knowledge point is forgotten, or when listening to a class is distracted, learners can re-learn the course, whenever and wherever they want to revisit it. Time in online education is broad, there is no time limit, more conducive to the arrangement of self-time.

2.3 Better control over knowledge

Nowadays, with the increasing anxiety, people need more and more knowledge, we all want to learn more, but we don't know exactly what is suitable for us. Internet intervention, more in-depth assistance to this practice [4]. Traditional classes can only spread students' views by raising their hands or sharing them in groups. But online teaching breaks this limitation, students can make their own opinions simultaneously and immediately in the discussion area, and everyone can browse other people's opinions at the first time, carry out further discussion, and promote the diversity of views and the expression of personality.

3. Lack of online education

Traditional education can't be completely replaced by online education. Offline education has a good teacher-student interaction and learning atmosphere, these are also the lack of online education, mainly in the following aspects:

3.1 Higher Software and Hardware Requirements

Online education carries on the information dissemination through the network, pays more attention to the output of the teaching content, puts forward the higher request to the teacher's classroom interaction ability, the teaching rhythm and the progress master and the network platform unobstructed degree, namely the software, the hardware request all needs to update unceasingly.

3.2 Teaching Effectiveness and Monitoring and Evaluation Difficulties

Most of the online education is live platform mutual education as well as video, in one-to-many form, students' classroom concentration and self-control ability has further requirements. Students' classroom cooperation or not, teachers are mostly unable to monitor in the opposite side of the network platform, the absorption of knowledge depends more on the students themselves. At the same time, online education in most cases students' homework needs to be uploaded and submitted, or self-checked answers [5]. Upload and submit homework, for teachers, the steps of correcting homework become cumbersome, correction efficiency is low; students self-check answers, in most cases, self-check answers will be more efficient, but do not rule out the occurrence of students directly copy answers and other behaviors, students' absorption of knowledge points can't be truly

monitored.

3.3 Lack of classroom interaction scenarios

Online education can't better create a collective learning atmosphere, lack of teaching reality, students are easy to be tempted by things around, attention is not focused, at the same time less communication with teachers. Offline education provides a fixed time, a fixed learning group to study together, the communication between teachers and students and students is more timely, and the period of problem from exposure to solution is also relatively short [6].

4. Changes in the Future Online Educational Patterns

4.1 Integration of online and offline education

Online education and offline education have their own incomparable advantages, how to complement the advantages of the two is the key to promote the further development of the education industry. Online education and offline education have their own strengths, the two teaching models can complement each other, the mixed learning model will make them learn from each other [7].

4.2 Making use of Internet technology to make up for the deficiency of online education

The advantage of online education compared with offline education is very prominent, the use of Internet technology can make resources highly aggregated on the one hand. On the other hand, reflected in the use of data mining [8]. Through the intelligent analysis of big data, online education can also ensure that it adapts to the differences of learning habits and learning needs of different students, so as to make individualized cultivation to the extreme. Rational use of Internet technology to assist online education can improve the attractiveness of teaching materials, increase classroom instant interaction, strengthen after-class follow-up and feedback, student participation, optimize the quality of thinking, and so on [9]. The main reasons for the rational use of the Internet to assist online education can be summarized as follows:

4.3 Education needs diversity and integration of new things

The traditional teaching methods stick students to the campus, and the learning knowledge is the traditional textbook, which is not conducive to the students to broaden their horizons [10]. And the integration of network education, opened a window, it will combine the traditional way with the new education means, greatly enriched the material of learning, opened up the eyes of students. In the course of online education, teachers make every effort to collect materials closely related to textbook teaching, stand in a higher pattern, pay attention to the transfer of traditional knowledge, but also innovative, with hot materials to catch the eyes of students, and do their best to achieve the optimization and innovation of teaching.



Figure 1. Student can develop various abilities through education.

4.3.1 Cultivating Students' Subjective Initiative with the Network of Education

The network of education is a necessity under the background of the times, technology can serve

the education industry well, as a supplement to the way of education, can mobilize students' subjective initiative. Students can use the network for thematic courses, and can also access their own materials, through cooperation with groups or with students for information collection, production and presentation of results. This can arouse students' enthusiasm for inquiry to a great extent, and change from passive acceptance of knowledge to active inquiry knowledge [11].

4.3.2 Diversification of evaluation modalities

For traditional teaching, scores account for a large proportion in student evaluation [12]. Although modern schools are vigorously advocating quality education, and all kinds of educational reform are also in full swing, the evaluation mechanism of students is still relatively single, and it is difficult to achieve the education of soul awakening in the true sense. But the network education has made up for this flaw, the teacher's commendation has continuously emerged each level incentive, such as "the self-discipline star ", " is willing to share the prize ", " the craft reaches the person " and so on, with such open, inclusive mentality to face each child, it is not difficult to find that each child has more glittering advantages.

Conclusion

No matter how online education and offline education layout education, its purpose is to clarify the needs and difficulties of learners, so as to solve their problems and create value. Presumably when the two combined, will be able to achieve 1+1>2 effect [13]. Online education also requires continuous innovation, meeting the needs of students and teachers, and constantly optimizing the experience of classes in collaboration with the Internet. All in all, in the era of "Internet +", online education will become the mainstream trend of educational development in the future.

References

- [1]. Shi Jiansong. Refusing to "fill the house online" to guide students to learn independently offline [N]. China Education News, 2020-02-13.
- [2]. Xie Youru, Qiu Yi, Huang Yuling, Wang Qinlei. Characteristics, Problems and Innovation of Online Teaching Method of "Stop School and Stop School" during J]. Epidemic Audio-visual Education Research, 2020, 41(3): 20-28.
- [3]. Yang. A New Power for Innovation and Development in Education [J]. China Education Network ,2017(5).
- [4]. Luo Yimin. Teaching Mutual Difference —— Teacher Subject, Teacher Growth and Teacher Learning [J]. Journal of Chongqing University (Social Sciences Edition),2008(1):135-140.
- [5]. Li Mang. Criticism on "instrumental rationality" of educational technology [J]. Educational Research ,2008(5):56-61.
- [6]. Li Mang. Discussion on the Teaching Value of Information Technology [J]. Audio-visual Education Research ,2007(8):5-8.
- [7]. China Internet Information Center. 44th Statistical Report on the Development of China's Internet [R]. Beijing: China Internet Information Center ,2019.
- [8]. Huang Ronghuai, Liu Dejian, Liu Xiaolin, Xu Jingjing. Basic Patterns of Internet for Educational Change [J]. China Audio-visual Education 2017(1):7-16.
- [9]. Cen Jianlin. Study on the Definition, Characteristics and Application Adaptability of Micro course in the Age of "Internet +" [J.] Audio-visual Education in China ,2016(12):97-100.
- [10]. Wang Qiong. Four Elements of Successful Online Teaching [M]. Beijing: Peking University Press ,2007.
- [11]. Wang Lu. Analysis on the Mechanism of Knowledge Sharing and Knowledge Innovation

in Teachers' Online Practice Community [J.] Audio-visual Education Research ,2015,36(5):101-107.

[12]. Shizhong Zheng, Deli Zhang. Inheritance and Transcendence: From "Network Teaching and Research" to "Internet +"[J.] Teacher training in primary and secondary schools ,2016(10):22-25.

[13]. Dai Weihui. A New Transformation in the Development of Modern Distance Education: From Internet+ to AI Internet+ and Neuro Internet+[J.] Modern Distance Education Research ,2018(2):3-13,31.