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# Analysis of Convergence Journalism Education from the Perspective of Complexity: Thinking Based on Theoretical Dimension and Technical Logic

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#### **ABSTRACT**

From attributes of education, the news practice and theory of convergence journalism, the characteristics of the Internet, convergence journalism education is a complex system. Under the impact of the Internet, the knowledge system of traditional journalism is no longer suitable for the media environment and social needs of new media. Under the impact of the Internet, the knowledge system of traditional journalism is no longer suitable for the media environment and social needs of new media. Internet-based convergence journalism theory needs to form a communication journalism theory system because of traditional journalism theory system. At the same time, the convergence journalism curriculum also faces the deconstruction and reconstruction of traditional journalism curriculum system by Internet technology. Based on the complexity theory, this paper analyzes the complexity of convergence journalism education from the two dimensions of journalism theory and technology, so as to explore the innovative path of convergence journalism education. The paper holds that from the theoretical dimension, the convergence journalism education is confronted with the challenges of the convergence journalism phenomenon and practice to the traditional journalism theory, the adaptation of the convergence journalism education to the Marxist journalism, and the construction of the convergence journalism paradigm on the basis of the traditional journalism. From the point of technology dimensions, the complexity of journalism education embodied in the macro level of complex network environment, the medium of level of interweaving between the curriculum system and interconnection technology, and the micro level of practice courses such as news interview, writing, editing and publishing relying on Internet technology. Therefore, it is necessary to explore the innovative path of convergence journalism education, we should form systematic thinking in the complex process of convergence journalism education, establish the "dual logic" in education to keep the tension between the elements of convergence journalism education, and embody the process of integrated journalism education and activates the vitality of collaborative development between courses.

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It is clearly pointed out in the Opinions of Publicity Department of the CPC Central Committee on Improving the Training Ability of Journalism and Communication Talents in Colleges and Universities and Implementing the Education and Training Plan 2.0 for Excellent Journalism Talents released by the Ministry of Education in 2018, which main idea is cultivating and training a large number of high-quality, all-media and expert-type news talents with national feelings and international vision. In the same year, The National Standards for the Teaching Quality of Undergraduate Majors in Regular Institutions of Higher Learning, defined the knowledge system and core courses of journalism, the convergence journalism course was added [1]. Then convergence journalism has become a new practice in the process of media convergence, convergence journalism and education also emerge in such media ecology, which construct the knowledge system of journalism education.

In recent years, the research on convergence journalism education has become a hot topic in China, which mainly focuses on the curriculum reform, personnel training, educational objectives, practical teaching, knowledge system reconstruction and educational ideas of convergence journalism education. From the three dimensions of education, convergence journalism and Internet, convergence journalism education is facing the educational reform brought about by the complex Internet system, which is a complex educational practice different from traditional journalism education. Complexity theory argues that society is a complex system, in terms of integrated journalism education, its educational content, method, purpose and environment are complicated, So the paper analyzes the complexity problems of the convergence journalism education, which are related to convergence journalism theory and technical logic to explores the innovative path of the convergence journalism education under the complexity perspective.

### **Complexity and Convergence Journalism Education Theory of Complexity**

Complexity became a theory in the 1980s. It is generally believed that complexity arises from nonlinearity, uncertainty and instability, ontological complexity means that things have many complicated

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components, while epistemological complexity means that things are difficult to understand and deal with, in summary, "complexity" refers to the quality or state of being "complex". According to Edgar Moran, "Complex things cannot be summed up in a few key words, or reduced to a rule, or reduced to a simple idea [1]. "The expression and state of complexity is uncertainty, which is interwoven: the connotation of complexity is the regularity and richness contained in things [2]. Therefore, complexity research is to make a clear distinction with the traditional and simplified way of thinking and understand things with complexity thinking. In essence, complexity science is a revolutionary movement of the way of thinking, its research object is the complex system, which has the characteristics of nonlinear, dynamic, adaptive, chaotic, feedback and emergence [3]. As far as convergence journalism education is concerned, which whole process is complex, with nonlinear and uncertain characteristics, and these characteristics affect the cognitive mode of education practitioners and the teaching mode, and also have an important impact on the construction of the knowledge system of the education object. Therefore, to explore the essence of convergence journalism education from the perspective of complexity is to change our way of thinking about journalism education. The research of pedagogy in our country is deeply influenced by the complexity theory [4]. There are many achievements in the basic theory of education; research methods, curriculum and moral education [5]. There are many researches on higher education in particular, such as ideological and political research, historical evolution of university organization, teacher role, classroom management, curriculum teaching and subject construction. Complexity theory is of great significance to educational research, so it has theoretical significance to integrate journalistic education [6-10]. However, there are few studies on the analysis of journalism with complexity theory in our country, so this study has some practical significance.

#### Feasibility of Convergence Journalism Education Research from the Perspective of Complexity

The Internet with "connection" as its evolution logic has changed the whole communication environment structurally, the digital media based on Internet technology connects multiple physical, social and psychological factors, which is a complex system. Convergence journalism and its education are formed in this complex system, so its internal and external environment is complex [11]. Therefore, convergence journalism education must be promoted with a complex attitude and way of thinking, it is feasible to analyze convergence journalism education from the perspective of complexity.

First, from the perspective of education itself, higher education is composed of a variety of interlinked subsystems, which interact with each other and are in a complex non-linear relationship network. As a kind of professional journalism education, convergence journalism education is a complex system and practical activity, which is influenced by many factors such as teachers, students, teaching process, theory construction, technology implementation and practice, the relationship between these factors is nonlinear, and there are many uncertainties affecting the education process, Therefore, it is feasible and reasonable to analyze the integrated journalism education from the perspective of complexity [12].

Second, from the perspective of the internal teaching content of convergence journalism education, the elements of convergence journalism are related to the journalism theory and practical knowledge system in the media convergence ecology comparing with traditional journalism, which is embodied in the theoretical and practical knowledge of convergence journalism production,

dissemination and operation on the level of news text. These elements are undergoing structural changes, which means that the convergence journalism and its education with these elements as the research object and teaching content is in a complicated state. Theory has complexity, which is embodied in the theoretical history, research object, type division and standard determination. From the perspective of the theory development, the historical development of the theory of convergence journalism contains a unique logic, which is reflected in the process from single to complex, from low to high, thus realizing the meaning transformation and accumulation of convergence journalism education.

Viewed from the system construction of convergence journalism, convergence journalism includes macro level industry convergence, convergence journalism, technology convergence, media convergence and other series, medium level of media convergence, channel convergence, department convergence and other series, micro level convergence news, convergence report, convergence editing series, the content involved is complex and systematic, which is a great challenge to the traditional journalism education [13].

Third, from the perspective of the relationship between the convergence journalism education and the Internet, the convergence journalism education is developed in such a complex network context, and its theory and practice are directly affected by the Internet technology. The Internet-based digital platform is the key in the process of media convergence, and it is also the technical problem of convergence journalism education. The Internet connects "people, machines and things", thus realizing comprehensive data integration and processing in cyberspace, physical space and social space. Achieving convergence journalism from making (AI anchor, robot writing, choice of content and actors, etc.), integration (intelligent media cloud, intelligent reuse and integration, data mining and analysis, etc.), transfer (software and hardware facilities, intelligent routing and intelligence resource scheduling, etc.), distribution (intelligent edge, intelligent recommendation, intelligent distributed cloud, etc.) to receive (intelligent receiving, intelligent operating system Intelligent terminal) industrial chain, which make the whole link from static to dynamic. So the production, distribution and reception of convergence news products based on internet technology is a complex industrial chain, and each link cannot completely rely on the linear thinking of traditional media, but should establish complex nonlinear thinking [14].

From the perspective of educational complexity and the internal and external environment of convergence journalism education, it is feasible and applicable to use complexity theory to analyze convergence journalism education. Since the prominent problem of convergence journalism education in the internet environment are convergence journalism theory and network technology, the study tries to analyze the theoretical complexity and technical complexity of convergence journalism, which are convergence journalism education confronted.

#### The Theoretical Complexity of Convergence Journalism Challenges to Traditional Journalism Theory

If we understand the education of integrated journalism from the perspective of complexity, the first problem we face is the applicability of traditional journalism theory and integrated journalism. Convergence journalism education is in the process of media convergence, and the concept, thinking, teaching relationship and news production process of convergence journalism have

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undergone great changes compared with traditional journalism. The Internet-based convergence journalism means that the news structure has undergone great changes. The convergence journalism and fusion its theory with these news phenomena as the research object naturally bring challenges to the traditional journalism theory. Convergence journalism does not only takes professional journalism as the research object, which leads to the paradigm shift of convergence journalism research, the redefinition of conceptual system, and the reconstruction of knowledge system and discipline system.

Taking the definition of news as an example, there exists the rerecognition and re-definition of the definition of news. Research on the definition of news evolves with the changes of media ecology and social environment. For example, there are different understandings on the definition of the nature of news from the perspectives of class, ideology, disciplinary background, academic perspective, media environment and media technology. Therefore, the understanding of the definition of news itself is characterized by complexity. In the Internet environment, the change of the role of the news spread and recipients and the development of communication technologies are more obvious in the influence of definition of news, news reports in the process of media convergence elements as subject, news value, the audience has changed, we need to analysis and understanding, the convergence journalism to create its discourse system has a certain reference and inspiration. The fact is that in the era of intelligence, the time and space of news production has broken through the time and space reality of traditional news production, time is calculated in seconds or even shorter [15]. The different means and forms of news presentation and the appearance of news patterns have an impact on people's understanding of the real world, and even on people's behavior and psychology. Therefore, media practitioners and scholars have redefined and thought about the definition of news. Therefore, compared with traditional journalism education, the news theory of convergence journalism education should form a news theoretical system to adapt the current media environment on the basis of traditional journalism, which at least includes the concept, knowledge and discourse system of convergence journalism. At the same time, new problems encountered by traditional news theories in the new media environment should be discussed, such as news authenticity in the post-truth era, news function in the new media environment, changes in news values in the digital age, changes in news public opinion brought by changes in media environment, etc. Those question should be the theoretical foundation of fusion journalism, all be worth discussing in-depth. On the one hand, it is necessary to construct the theoretical system of convergence journalism, and on the other hand, it is necessary to deeply study the new problems encountered by traditional news theory, which also reflects the complexity of convergence journalism education.

#### The Guidance of Marxist Journalism Theory to Convergence Journalism Education

Marxist journalism theory is the soul and guiding ideology of convergence journalism education. Convergence journalism education needs to form the understanding and theory of convergence journalism with Marxist viewpoints and methods, so as to enrich the Marxist journalism theory of "What is news? What is the essence of news? "and form a theoretical system of convergence journalism. In terms of current journalistic practice, the Internet has shaped a new journalistic communication ecology, which has brought about structural changes in journalistic activities, Such as interactive resulting in the changes of news transmission, hyperlinks making the structure of news text

diversity, the convergence of various media elements making news narrative differently from the traditional narrative, all of these are journalism education facing the reality of the problem, and to expand the development of the Marxist concept of news which has a practical basis and theoretical motivation. Marxist news view is not only diachronic, but also current, that is, it is the result of the cognition and interpretation of the current news activities and the practice of social development under the specific context, perspective and position, Therefore, the Marxist journalism theory has practical guiding significance to the convergence journalism practice, theory and education.

Further speaking, some new problems involved in the education of convergence journalism , such as convergence journalism theory, convergence journalism practice, convergence journalism production and circulation, should be brought into the scope of its investigation and research, so as to make the theory of convergence become an important part and continuation of the Marxist view of news. In the course of convergence journalism education, we should take Marxism journalism concept as the red line through the whole process and make it clear that the principle of Party character in the process of media convergence is the basic principle of our current news and public opinion work.

At the same time, the research of convergence journalism theory should be guided by Marxist news view and expand the theoretical boundary and discourse system of convergence journalism theory. Marxist journalism concept has the characteristics of times, practice and openness. The convergence journalism and its education can reflect the characteristics of Marxist journalism concept and become the real expression and concrete practice of Marxist journalism concept in the process of knowledge evolution in the field of news communication. Convergence journalism is the product of the Internet and new media. The problem it faces is that the professionalized news theory of traditional news can no longer fully explain the news phenomenon and news practice under the new media environment. Therefore, it is necessary to change the research paradigm and educational concept and practice of convergence journalism, to explore the new context of convergence journalism, to study the reality of the media industry, to adapt to the needs of the current comprehensive journalism education, which conform to the theory of Marxist journalism theory. Those are to explain the contemporary Chinese news phenomenon with theories and to solve the practical problems in the field of Chinese news under the guidance of practical concepts. Convergence journalism is based on the great changes in China's current news media practice, facing the deep transformation of Chinese journalism, the research on the main problems encountered in China's news field not only reflects the complexity of convergence journalism and its education, but also injects vivid practice and fresh reality into the Marxist view of journalism.

## The Construction and Development of the Paradigm of Convergence Journalism

As mentioned above, the Internet, digital technology and intelligent technology have challenged the traditional news theories. The convergence journalism, which is brought about by the new communication phenomenon, needs to face the new facts, new phenomena and new ways of news activities to form new concepts, knowledge, discourse and theoretical systems and transform the research paradigm. The research paradigm is on the basis of traditional journalism and is the sublation of traditional journalism, and at the same time it extends the research object to the new news phenomenon and news activities generated through the Internet [16].

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The Internet revolution has brought about fundamental changes in journalism activities, the basic elements of journalism activities. and the deep relationship between journalism and society, which prompts the traditional journalism to transform its discipline paradigm, and the new discipline paradigm, is the fusion journalism paradigm. When the old paradigm still exists, and the new paradigm system has not been formed, which makes the convergence journalism education become more complex, on the one hand, the new paradigm is not on a patchwork of the old paradigm, on the other hand, we should establish the new paradigm in internet-based news activity, news phenomenon, social relations, form different from traditional journalism discipline paradigm. Convergence news should be a new news culture and a new news practice which production is a new process reengineering and authority reconstruction. The text and meaning of news production are in a fluid state, which has shaken the traditional news concept and requires journalism theory to make its own personality to respond to the new industry situation [17].

So what should the disciplinary paradigm of integrated journalism ?From the comparison with traditional journalism analysis, Fist, traditional journalism is based on professional journalism activities, convergence journalism is based on socialized and mediatized journalism activities; traditional journalism mainly focuses on the field of professional journalism, while convergence journalism not only discusses the news rules in the field of professional journalism, but also analyzes the characteristics and rules of socialized and media-oriented news activities; traditional journalism education takes professional journalism activities and phenomena as its core, while convergence journalism education takes Internet-based convergence journalism activities and phenomena as its core; So in the journalism education with this logical structure, the curriculum should be oriented towards the cultivation of socialized and integrated journalism talents, and the core of the educational concept and teaching method is the Internet-based integrated journalism practice. The Internet connects human beings together, therefore, the establishment of the paradigm of integrated journalism should not be limited to the professional journalism activities of traditional journalism, but should focus on the "relationship between people and news" as its general issue to explore the relationship between news and human development on the macro level and the relationship between news and micro-society on the micro level, Therefore, the traditional journalism based on professional journalism is combined with the current socialized and media-oriented journalism, thus forming systematic convergence journalism. Presumably, this should be the logical starting point and gist of establishing the paradigm of integrated journalism [18].

#### The Technical Complexity of Convergence Journalism Education

A series of Internet-based technologies such as Internet technology, new media, big data, machine writing and artificial intelligence constitute an important part of our understanding of convergence journalism education. The Internet is a complex system, which shape and tract the human, disintegrating the traditional social relations, so china journalism education was impacted obviously. It can be said that Internet technology has shaped convergence journalism and convergence journalism education. The complex technology making the convergence journalism education always have a sense of being caught off guard which face many problems derived from the complex Internet technology system. The technical complexity of Internet technology in integrated journalism education is as follows [19].

### Macro level: Integrated journalism education is in the process of digitization

From the perspective of educational environment, college education is in the process of digitization. In an age of rapid development of digital media, technology and education are inextricably linked, Technology is expanding the boundary of education, changing the content and mode of education; Similarly, education expands people's imagination and exploration of technology, and speeds up the renewal and popularization of technology. It can be said that digital has affected the teaching, learning and scientific research processes, which are the core of convergence journalism education. The digital has subverted the teaching mode which is dominated by classroom and teacher, and the core field of teaching is facing fundamental changes. [20] Faced with the complex digital environment, the role of teachers has changed from the imparting of knowledge to the designer of learning content, learning process and learning environment. Students who have grown up in a digital environment have long lived in an online world and are used to learning through experience and engagement, rather than passively listening and reading. For convergence journalism education, these problems should be caused by the complexity of the external educational environment brought by digitalization.

The media convergence of the media industry is the media environment in which the education of convergence journalism is located, this external environment is the media ecology shaped by the Internet and digital. Digital technology is the core technology that the media industry depends on for survival. Mobile Internet, cloud computing, intelligent technology, VR/AR, virtual reality, block chain and other technologies have been widely used in the media field, driven by these technologies, subversive changes have taken place from media practice to media management, In such media convergence environment, the journalism education must be based on the reality of the digital of media ecology, thinking the Internet technology as an important factor in journalism education of the whole system to think convergence journalism education concept, orientation, development planning, course construction, talent cultivation, teaching methods and other issues [21].

#### The Medium Level: Interweaving of Curriculum System and Internet Technology

For the convergence journalism education which is based on media convergence, its curriculum system construction is interwoven with Internet technology, and the curriculum system of integrated journalism should also be built with Internet technology as its logical starting point. Convergence journalism education cultivates multimedia journalists, who should have the application ability of digital media technology, the integration, production and communication ability of cross-media news resources, as well as the comprehensive ability covering literature, film and television technology and communication management to have these three abilities, journalists need to master the interconnected thinking and internet technology of news production, release and management [22]. Therefore, in the construction of convergence journalism education curriculum system, we should break the traditional journalism education to set the major direction and curriculum system according media, adjust students' knowledge structure and practical skills, integrating internet thinking and internet technology into courses from different dimensions, so as to cultivate students' multimedia thinking and news ability.

In terms of discipline construction, it integrates journalism and communication with computer science, information science and other disciplines, and integrates data analysis, deep learning and simulation experiments into the curriculum system of convergence

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journalism, For example, the Network and New Media major of Jinan University has set up courses such as internet frontier trend of thought, network communication technology and its application, fundamentals of program design, data mining and analysis, information visualization, user interface and user experience in accordance with the construction of knowledge system of convergence journalism. The digital journalism major of Renmin University of China offers new media courses of digital and network technology, such as digital media application, multimedia news communication, network news editing, network interactive management, mobile information communication and new media management, which are on the basis of the core courses of "interviewing, writing, editing and commenting" [23]. Chinese universities have taken network technology as a basic logic to build a course system of convergence in the process of building an integrated news education system. The interweaving of specific courses and network technology constitutes the complexity of integrated news education.

#### Micro Level: Technical Dependence of Convergence Journalism Practice, Interviewing, Writing, Editing and Publishing

If the construction of convergence journalism curriculum system is based on internet logic, its complexity is mainly reflected in the concept and design of curriculum construction, the third technical complexity problem faced by convergence journalism education is that at the micro level, various aspects of convergence journalism, such as topic selection and planning, interview practice, content production, news editing and news release, have been highly integrated with Internet technology, showing a state of mutual integration, there's been a lot of practice in journalism, For example, big data intelligent situational perception is used to report the two sessions. Journalists wear MR Glasses to collect, shoot, record, drone camera, robot writing, the application of AI editorial 2.0, big data news feed, etc. The practice of editing and writing has realized the integrated linkage of "real-time broadcasting + integrated reporting" and "traditional large screen + mobile small screen"; The combination of 3D virtual technology and cloud technology solves the problem of face-to-face interviews; An artificial intelligence newsroom enables interviews in the cloud; 5G technology is applied in the process of "planning, interviewing, editing and sending" to achieve the effect of "AR+5G" simultaneously [24]. The technical logic on which the practice of convergence journalism depends will inevitably push the academic circle to impart the technical logic and operation on which the practice of convergence journalism depends to the students in the teaching of convergence journalism, As a result, a complex problem of convergence journalism education at the micro level is how to integrate Internet logic and technology into teaching, so that students can truly apply internet technology to the practice of convergence journalism practice [25].

## **Innovation of Integrated Journalism Education from the Perspective of Complexity**

When analyzing the complexity of things, complexity theory puts things in the internal and external relations, and deeply understands the complexity of things from the internal and external structure, connection and other relationship modes. As Moran points out, "The method of complexity requires us to never close off concepts in our thinking, to shatter closed boundaries, to reconstruct connections between what is divided, to strive to grasp the manifold, to take account of the particularity, the place, the time, and never to forget the totality of its integration [26]."Digital media in the 5G environment is bound to be a more complex system, because it connects more physical, social, physiological and psychological factors, which requires us to use the concept

of complexity [27]. The logic of complexity and the paradigm of complexity to grasp the nature of phenomena in the new communication field [28].

#### Establishing System Thinking to Adapt to Complex Integrated Journalism Education

To explore the innovative path of convergence journalism education, we should establish systematic thinking in the complex convergence journalism education, "System thinking is the way of thinking that regards the object of thinking as a system to identify things and think about things [29]. "The specific expression is to look at everything from the system point of view, to understand and deal with the problem from the whole, to grasp the internal and external regularities of the system, to look at the system as process, evolutionary, dynamic and nonlinear point of view, etc., [30].

Convergence journalism education is a system, if viewed from the whole, convergence journalism education contains internal system and external rules. Systematic thinking is needed in the process of convergence journalism education, The convergence journalism education is a whole system of the unity of the structure and function of the various elements with certain connections, so It is necessary to consider the relationship between the internal composition comprehensively, especially to emphasize the penetration of the Marxist journalism theory in the convergence news education. It is also necessary to consider the effect of external environment on the convergence journalism education. Only by recognizing the connection and function between various elements can we understand the whole picture of the integrated journalism education; Also, it is necessary to analyze the relationship between the various elements of convergence journalism education, such as the theory of convergence journalism, network technology, training objectives, curriculum system, teaching practice and so on, and examine each element in the whole.

To establish systematic thinking, it is necessary to view the convergence journalism education from a dynamic view, rather than a static, once and for all education model." Change" is a prominent feature of journalism and journalism education. The development trend of journalism education is affected by the changes of the whole journalism and media environment. It can be said that the change of the concept of convergence journalism education is the result of the combined influence of society, technology and culture. The external environment of convergence journalism education is a constantly changing dynamic environment. With the development of Internet technology, the four basic elements involved in traditional journalism, media, messenger, content and audience, have undergone fundamental changes, and the concepts related to these four basic elements should also have new interpretations and changes in convergence journalism, In other words, the challenges faced by traditional journalism mentioned above and the paradigm shift of convergence journalism; The dynamic changes in the fields of media and journalism and communication make the convergence journalism education also need to reflect these dynamic changes in the aspects of theoretical teaching, practical teaching, case explanation, curriculum setting, teaching syllabus formulation and so on.

In the integrated journalism education, we should pay attention to the integration of the external stimulus and interference of the news education system and the internal disharmonious factors in its own development, so as to reflect the adaptability of the integrated journalism education. How can this adaptability be achieved? From the perspective of the whole convergence journalism education system, it should have certain planning,

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purpose and creativity, and have the ability and function of adjusting and changing itself. In terms of the current situation of the convergence journalism education system, the teaching plan and purpose from national top-level design to classroom teaching should reflect the planning and purpose of the system, and on this basis, the innovation of integrated journalism education needs continuous learning, for example, the education subject should understand the changes of the new media environment; Learn and understand the Marxist news outlook and news theory, and form a problem consciousness; It is necessary to constantly learn new subject contents, so as to realize theoretical complementarity, practical interaction and course sharing among majors; to be familiar with the new requirements of new media technology for news theory and practice of journalism; to master the multimedia communication and modern media technology; to understand the importance of humanities education in the digital age; Only through continuous learning can we ensure the overall vitality of convergence journalism, so as to enhance the self-adjustment and mutual adaptation of the internal mechanism and function of the education system [31].

## Establishing the "Dual Logic" in Education: Keep the Tension of Integrated Journalism Education

Complexity theory uses dual logic to solve binary problems and contradictions. "Dual logic" refers to the unification of two logics or two principles without losing their own inherent duality and difference. This required both sides of contradiction to maintain reasonable tension difference and opposition in their symbiosis, and at the same time not to ignore the mutual connection, complement and perfection of both sides of contradiction while maintaining mutually exclusive tension and opposition.

There exists the problem of binary opposites and contradictions in convergence journalism education. We should grasp the contradiction of binary opposites and observe the identity, coexistence and relevance of contradictions keenly, without putting aside the difference, opposites and exclusivity of contradictions, and regard convergence journalism education as a system with "double logic" in different dimensions of this system. In the previous analysis of the complexity of convergence journalism theory, the similarities and differences between traditional news theory and convergence journalism theory have been explained, and the adaptability between Marxist journalism concept, convergence journalism theory has also been analyzed, which reflects a dimension of dual logic in convergence journalism education. In the convergence journalism education, there are some problems, such as the adaptation and deviation of Internet technology and curriculum means, the compatibility and exclusion between courses, the equivalence or mismatch between teachers' ability and students' needs, the adaptation and difference between media environment and educational means, and the conflict and correlation between the long-term planning and short-term goals of convergence journalism education, This requires us to adopt a dual logic approach to the problem of binary contradiction, which is not a black and white approach, not a simple superposition of differences and opposing elements, It is to fully grasp the realistic rationality and limitations of the diachronic and coexisting elements in the education of convergence journalism in the inclusive and transcending differences and oppositions, to reflect the dynamic connection between the elements, to maintain the sensitivity to the differences and oppositions between the binary contradictions, and not to exclude the coexistence of the two [32].

## Emboding the Process of Education: Activating the Vitality of the Collaborative Development of Integrated Journalism Courses

The world is a dynamic process of continuous development, so we must adhere to a process thinking. Process thinking is to recognize the nature of the organism and its internal relationship, insight into the life and activity of the organism's internal relationship and structure, and find the law of continuous evolution and creation of the organism. Convergence journalism education is an organic unity and a dynamic process, which is evolved and developed on the basis of traditional journalism education, this means that we must use transformational thinking and dynamic process thinking to deal with all kinds of problems in convergence journalism education, It should embody the process in every link of education and form the collaborative development vitality between courses, Otherwise, there will be a mismatch between the practice of convergence journalism education and the ever-changing media environment, which will make the educational practice and the environment to be in a state of mismatch, making the convergence journalism education become a mere formality and difficult to touch the essence of convergence journalism education.

To understand the generative and procedural nature of convergence journalism education, we should pay attention to the development history of convergence journalism education and its relationship with the real environment.

On the one hand, we should recognize the development history of convergence journalism education. On the surface, convergence journalism is the main content of current journalism education, but it is necessary to clearly understand that the foundation of convergence journalism education is traditional journalism education, and its theoretical and practical experience accumulated by traditional journalism education has laid a deep foundation. Only in this way, can we clearly convey the inheritance and transcendence of convergence education to traditional journalism education to realize the development of convergence journalism education on the basis of traditional journalism education. For example, curriculum construction should reflect the inheritance of the curriculum, for journalism history courses, it is necessary to put the development of convergence journalism into the context of the whole history of journalism to investigate and understand, so as to clarify the status and importance of convergence journalism and its education in the whole history of journalism and journalism education, and explore the supplement and innovation of convergence journalism education to the whole journalism education. Some journalism practice courses affected by Internet technology need to be adjusted and reformed on the basis of the original courses.

On the other hand, we should pay attention to the realistic environment for convergence journalism education. The realistic environment of convergence journalism education is the Internet environment. Only by placing convergence journalism education in the internet environment and connecting it with the media ecological environment, social structure, user characteristics and other realistic environment, can we analyze the relationship between these social phenomena and convergence journalism from different angles and discuss how convergence journalism education adapt to the environment in such an environment. Only in this way can we truly understand the concept and practical needs of convergence journalism education, so as to stimulate the collaborative development vitality of courses, so that education and teaching become a process of continuous emergence and innovation [33].

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