

Conference track «Regional and sectoral development in the context of digital transformation»

Changes in the Social Labor Structure in the Digital Age

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I. Characteristics of the Digital Age and Their Impact Foundation on the Labor Field

In the digital age, cutting - edge digital technologies such as information technology, the Internet, big data, artificial intelligence, and blockchain have experienced explosive growth and all - round penetration. The exponential increase in computer computing power has made it possible to process massive amounts of data rapidly. The popularization of the Internet has broken down geographical restrictions, connecting the world tightly into a digital information network. Big data technology provides accurate bases for enterprise decision - making and market forecasting through the collection, analysis, and mining of huge amounts of data. Artificial intelligence has made breakthroughs in image recognition, speech recognition, natural language processing, and other aspects, and is gradually applied in various industries to achieve automated production and intelligent services. Blockchain technology, with its characteristics of decentralization and immutability, is playing an increasingly important role in fields such as finance and supply chain management. The development and application of these digital technologies have laid a solid technological foundation for the transformation of the labor field. With the development of digital technologies, various digital platforms have emerged in large numbers. E - commerce platforms such as Alibaba, Amazon, and Ozon have changed the traditional business transaction model, connecting merchants and consumers around the world. Sharing economy platforms such as Didi Chuxing and Airbnb have innovated the way of resource utilization and achieved the efficient sharing of idle resources. Social media platforms such as WeChat and Facebook have not only changed people's social interaction methods but also opened up new channels for information dissemination and marketing promotion. The emergence of digital platforms has greatly changed the organization and collaboration methods of labor and has become a key force driving changes in the social labor structure. In the digital age, the speed and scope of information dissemination have reached an unprecedented level. Information can spread globally instantly on the Internet, and the knowledge update cycle has also been significantly shortened. In the labor field, this means that workers need to continuously learn new knowledge and skills to adapt to rapidly changing job requirements. At the same time, the rapid spread of information has also promoted the acceleration of innovation. In order to stand out in the competition, enterprises and workers have to continuously carry out innovation activities, which further promotes the dynamic adjustment of the labor structure.

II. Specific Changes in the Social Labor Structure in the Digital Age

1. Manufacturing Industry: Digital technologies are driving the transformation of the manufacturing industry from mass production to intelligent and customized production. Industrial Internet and Internet of Things technologies connect devices, products, and workers, enabling real - time monitoring, optimized scheduling, and remote operation of the production process.

2. Service Industry: Traditional service industries such as finance, retail, and catering have undergone transformations in the digital age. In the financial field, digital services have replaced traditional counter services, increasing the demand for composite talents. In the retail industry, with the rise of e - commerce, traditional retailers have launched online businesses and adopted

digital marketing, leading to an increase in the demand for professionals in e - commerce operation, data analysis, and logistics distribution. In the catering industry, the development of take - out services through digital platforms has improved operational efficiency, and the demand for management and service personnel with digital skills has increased.

3. Internet Industry: As the core industry of the digital age, the Internet industry has created a large number of new jobs, such as website development, online marketing, mobile application development, big data analysis, and artificial intelligence algorithm research. The work mode is flexible and innovative, and remote work and project - based team collaboration are common.

4. Sharing Economy Field: The sharing economy has given rise to new forms of labor, such as online car - hailing drivers, food delivery couriers, and hosts of shared accommodation. Workers rely on platforms to work, and their working hours and locations are flexible, with diverse labor relations.

5. Digital Content Creation Industry: The popularity of social media and short - video platforms has promoted the development of the digital content creation industry. Internet anchors, self - media creators, and short - video producers have become emerging occupations. Creators attract user attention through high - quality content and realize traffic monetization. Against the backdrop of such development, industry requirements have gradually changed:

1. Digital Skills as Core Competence: The digital age requires workers to have the ability to apply digital technologies, such as office software, data analysis tools, and the use of Internet platforms. For technical positions such as software development engineers, data analysts, and artificial intelligence experts, they need to master cutting - edge digital technology knowledge and programming skills. Digital skills affect employment opportunities, salary levels, and career development.

2. Increased Demand for Interdisciplinary Comprehensive Abilities: Labor positions in the digital age require workers to have interdisciplinary comprehensive abilities. For example, engineers in the intelligent manufacturing industry need to master knowledge of mechanical design, manufacturing technology, computer science, automation control, the Internet of Things, etc. Practitioners in the fintech field need to have financial professional knowledge and digital technology knowledge such as big data analysis and blockchain technology. Interdisciplinary comprehensive abilities prompt workers to expand their knowledge fields and improve their comprehensive qualities.

3. Innovation and Collaboration Abilities Highly Valued: The digital age requires workers to have innovation abilities, to put forward new ideas and solutions, and to create value for enterprises. With the popularization of digital platforms and remote work, team collaboration depends on online communication and collaboration tools, and good collaboration ability has become an essential quality. Project teams in Internet companies are usually composed of people with different professional backgrounds. Through efficient collaboration and innovation, they can quickly launch products and services that meet market demands. Overall, against the backdrop of the development of the digital age, the human labor structure, in line with social development needs, has transformed from a group - based factory - type assembly - line labor structure to an individual or small - group - based open - creative labor structure. In the new social context, the importance of employees' creativity and initiative may gradually exceed that of the ability to obey management and follow instructions.

III. Opportunities and Challenges of Labor Structure Changes in the Digital Age

Opportunities The development of digital technologies and the rise of emerging digital industries have created a large number of new jobs, such as data annotators and algorithm engineers. The integration of digital technologies and traditional industries has also given birth to composite jobs, such as industrial Internet engineers. These new employment opportunities provide diverse choices for workers with different educational backgrounds and skill levels, helping to ease employment pressure. The application of digital technologies has improved labor efficiency and quality, reduced labor burdens, and enhanced professional satisfaction and job satisfaction. The labor models in the digital age are more flexible, such as remote work

and freelancing, which helps to stimulate workers' enthusiasm and creativity and promote the realization of personal value.

Challenges The application of digital technologies has increased the risk of structural unemployment. Some traditional jobs, such as assembly - line workers and cashiers, are easily replaced by automated equipment and artificial intelligence. Workers may face the risk of unemployment if they cannot upgrade their skills in a timely manner. The employment gap between different regions and industries may widen, and low - skilled workers are more severely affected. The digital age has raised the skill requirements for workers, but many workers face difficulties in learning, and the skill training system is not perfect. New forms of labor in emerging digital industries, such as sharing economy workers and platform workers, face new issues in labor rights protection, such as vague labor relations, job - related data security, and privacy protection. Building a labor rights protection system that adapts to the digital age has become an important issue.

IV. Strategic Suggestions for Coping with Labor Structure Changes in the Digital Age

1. Strengthen the Construction of Digital Skills Training and Education Systems: Improve the cultivation of digital skills in school education and carry out digital skills training for in - service workers.

2. Promote Industry Integration and Diversified Development to Create More Employment Opportunities: Promote the in - depth integration of digital technologies and traditional industries and foster emerging digital industries and new business forms.

3. Improve Labor Laws, Regulations, and Policy Systems to Protect Workers' Rights and Interests: Clearly define the labor relations of new forms of labor, improve the labor rights protection system, and strengthen the protection of workers' data security and privacy.

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Illustrations

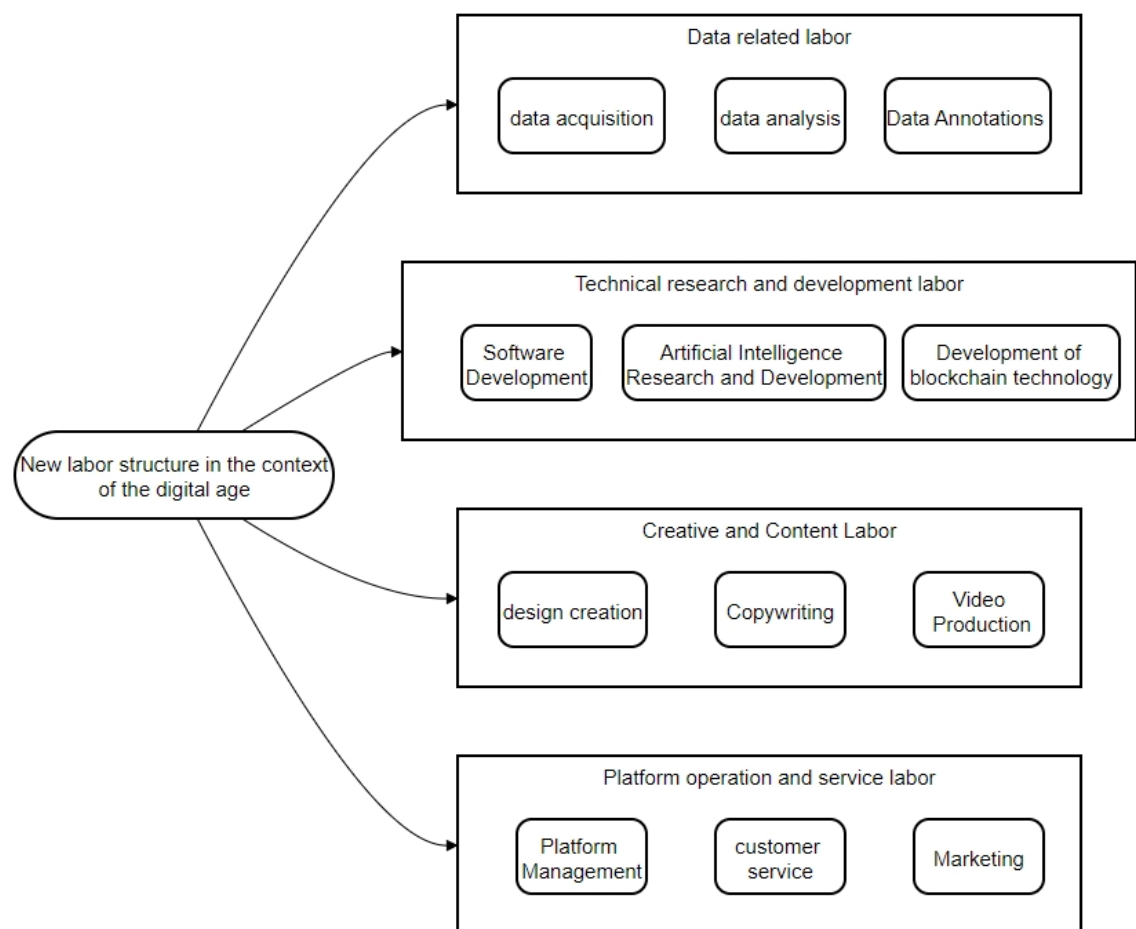


Рис. : Social labor structure in the digital age