



### **Topic of the Speech:**

Research on WSR Collaboration Model of Distributed Supply Chain Based on Blockchain

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2020.11-Present, The blockchain expert of Special appointment of AISINO Co., Ltd. Responsible for a consult in the "Blockchain-based Industrial Products Anti-counterfeit Traceability Platform" of 2020 Industrial Internet Innovation and Development Project-Blockchain Public Service Platform Project of MIIT of China.

2020.9-Present, Visiting associate professor of XIHUA University of China. Responsible for researching the application of blockchain in the real industry.

2020.2-Present, The project technical director of the project "Application of Blockchain Technology to Improve China's Infectious Disease Surveillance System" of NSSFC of China.

2018.11-2019.8, System architect of "Non-Bank Financial Business Credit Technology Path Research" (2019) of Baihang Credit Co., Ltd. Responsible for Blockchain credit system architecture design.

2018.3-2018.11, Solution Manager, Product Director of Higgs Chain Co., Ltd. Responsible for the expansion of blockchain technology in the physical industry and the design of blockchain products and solutions.

2011.6-2017.9, Solution architect, product architect, R&D director of AsiaInfo Technology (China) Co., Ltd. Responsible for telecom BOSS system R&D.

2004.4-2011.6, Project implementation engineer, product development engineer, project manager, technical manager of Linkage Technology (Nanjing) Co., Ltd. Responsible for project implementation.

## **Research on WSR Collaboration Model of Distributed Supply Chain Based on Blockchain**

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### **ABSTRACT (NO MORE THAN 500 WORDS:)**

In the past golden decade of China's consumer Internet development, a large number of Internet companies have efficiently concentrated capital, resources, products, services, and users within the platform by building a platform market, taking advantage of Network Externality, Economies of Scale and Two-Sided Markets, and realizing the efficient exchange and transmission of value within the platform. At present, the rise of the industrial Internet has gradually shifted the focus of Internet development from the consumer side to the supply side, but the successful model of the development of the consumer Internet cannot be simply copied in the industrial Internet, especially in the field of product supply chain, which still shows the characteristics of distribution, mainly manifested in the three levels of platform dispersion, value circulation dispersion, and participant dispersion. In this paper, a collaboration model of WSR implemented in a distributed supply chain environment is proposed by combining blockchain technology with WSR (Wuli-Shili-Renli) system methodology, which uses the blockchain consensus protocol to achieve cross-platform spatial collaboration, the data time durability of blockchain to achieve cross-domain value circulation collaboration and the digital identity mechanism to achieve the behavior collaboration of participants. This paper presents a system design model based on object-oriented software, and verifies the actual effect of the model using blockchain technology. This model enables the product supply chain to obtain high-quality synergies in the current distributed environment, and provides a new technical path for the development of the Industrial Internet.