Title: Science, Technology, Engineering, and Industry

**Abstract:** Based on the development history of lithography machine, this report demonstrates that basic research is the source of original technological innovation, and integrated innovation is the necessity for high-end product research and development. Through the development stages of the Internet, the report points out that such system-level products as the Internet are also high-tech products and further proposes an innovative thinking mode of system engineering as the four-dimensional space "science, technology, engineering, industry". Finally, the report introduces the future products industrial Internet and analyzes the main problems, architecture and future development opportunities.

Short Bio:

Shanlin Yang, academician of Chinese Academy of Engineering, an expert in management science and information system engineering, full professor and doctoral supervisor of School of Management, Hefei University of Technology. He has been engaged in the research of intelligent decision theory, information system technology and management system engineering, and has made major breakthroughs in the fields of intelligent manufacturing engineering management, medical and health engineering management, etc. He has won the second class of national science and technology progress awards twice, the first prize of provincial and ministerial science and technology awards six times, and the first prize of natural science award of the Ministry of education once. He has published 5 academic monographs, and more than 400 academic papers in important journals and international conferences. He has led the team to achieve a series of original achievements in the field of intelligent medical equipment and artificial intelligence system research and development, which are widely used in China's hierarchical diagnosis and treatment, emergency rescue, naval vessel health service and aerospace fields. These achievements were awarded as the world's most leading scientific and technological achievements in the Internet in 2020.