

SMART TRANSFORMATION ENABLED BY DIGITAL FUSION AND INDUSTRY 4.0

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ABSTRACT

Internet of Things (IoT) is making impact to the society not in an incremental but a disruptive way. With the sensing and connectivity on physical objects and environment, humans can now reach far beyond their physical confinement in space and time to perform much better informed control and management of the physical world. It is transforming the way business was being conducted will also change the way we live and perceive the world. Combining with recently resurrected AI and emerged blockchain, the digital fusion has been quietly driving most of the industries towards the fourth industrial revolution. The three digital technologies complement to one another, enabling a great number of innovative applications and services and allowing the impact goes beyond manufacturing industries. The new World Wide Web (Web 3.0) will have these three technologies contributing significantly to its core strength, alleviating, if not eliminating, current deficiencies of the Web. In this talk, the fundamentals and fusion of IoT, blockchain and AI technologies will be illustrated with applications in Industry 4.0 as well as various smart transformations.