Keynote on Blockchain overview and its use for decentralized identity

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Abstract: This keynote will present an overview of blockchain technologies such as how it works, which cryptographic algorithms are needed, what type of consensus mechanisms exist, what type of blockchain technologies exist and their properties and what typical use cases exists. It will provide current standardization activities by global SDOs, such as ITU-T SG17 and ISO/TC 307.

In addition, the most potential use of blockchain technologies is decentralized identity management system that enables implementation of mobile driver's license and digital COVID certificate. This keynote will present overview of this decentralized identity and some typical use cases based on decentralized identity using blockchain technologies. Especially, some projects under way in Korea will be introduced to provide how the blockchain technologies are incorporated to enable implementation of decentralized identity.