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(57) Abstract :  
 The present disclosure relates generally to the field of industrial internet of things (IIoT) and blockchain technology. More specifically, the present disclosure relates to a system for authenticating the identity of industrial internet of things (IIOT) equipment and ensuring safe interaction between equipment based on blockchain technology. The system (100) includes a server (102), two or more IIOT equipments (104) and a blockchain network (108). A unique identity is generated for each piece of industrial internet of things (IIOT) equipment (104) using a cryptographic algorithm. The access and interaction are controlled between multiple pieces of IIOT equipments (104) using a smart contract unit (110) of the blockchain network (108). Further the present invention relates to a method for authenticating the identity of industrial internet of things (IIOT) equipment and ensuring safe interaction between equipment based on blockchain technology.

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