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(57) Abstract :

The present disclosure relates to a system (100) and method (300) to secure data sharing in IOT- based supply chains. The system receives a set of data from one or more participants (114) through one or more computing devices (112), and records a set of historical transaction data to establish a partnership between the one or more participants (114) through a blockchain. Additionally, the system determines a level of partnership between the one or participants (114) based on the set of historical transaction data and integrate a set of information of the one or more participants (114) using a ciphertext-based attribute cryptography. The system correspondingly secures the received set of data from the one or more participants (114) using one or more symmetric encryption methods.

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