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Blockchain Technology for Disaster Management

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Message from the Guest Editor

The recent Coronavirus pandemic clearly demonstrates the need for global coordination for the timely management of disasters resulting from natural or anthropogenic hazards. Technologies such as blockchains and distributed ledgers in general can contribute significantly to meeting this need, by supporting the fast sharing of trustable data on wide area networks such as the internet in a transparent, immutable, and traceable way, while providing adequate levels of privacy and protection through the use of cryptographic techniques. Furthermore, through smart contracts, which are programs that link transactions on blockchains according to predefined schemes, it is possible to automate the execution of complex contractual relationships involving stakeholders of all kinds.



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