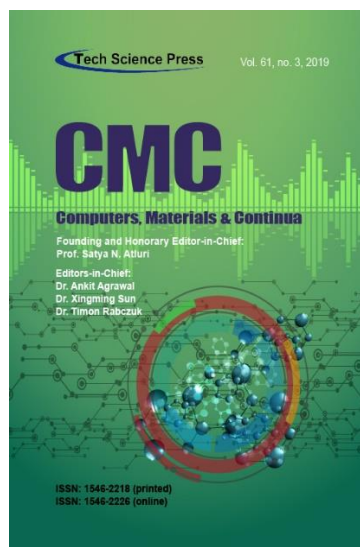


# Computers, Materials & Continua

Special Issue on

*“The Emergence of Blockchain Technologies in the Internet of Things (IoT)”*



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Day by day the Internet of Things (IoT) is gaining popularity. It has an enormous effect on virtually everything we do, and it remodels the cyber world by connecting it all to the internet. There are few IoT applications, from industry to smart industries, hospitals to intelligent hospitals, cities to smart cities. The IoT framework is complex and heterogeneous, bringing a range of challenges including decentralization, poor interoperability, privacy, and vulnerability to attack. Because of its many advantages, such as distributed data storage and immutability, blockchain has become the solution for IoT safety. It has the potential to improve the overall safety of the IoT ecosystem. The International Data Corporation expects approximately twenty percent of all IoT deployments to provide some sort of Blockchain services in the near future. There is a strong reason to believe that blockchain will lead to a new generation of IoT.

This special path will offer a forum for researchers and industry to share new research findings on Blockchain and IoT convergence, ranging from overviews, case studies of evidence-of-concept to applications.

## Topics include but are not limited to:

- Blockchain in IoT device authentication, authorization, and access control
- Blockchain in IoT data and system security
- Blockchain in IoT supply chain management
- Blockchain in M2M communications
- Blockchain platforms for IoT development
- Blockchain implementation in IoT embedded systems
- Novel Blockchain microprocessors and microcontrollers
- Blockchain in smart home applications
- Blockchain in smart building applications
- Blockchain in smart city applications
- Blockchain in smart healthcare applications
- Blockchain in smart transport applications
- Blockchain in smart manufacturing system applications
- Blockchain in smart agriculture system applications
- Blockchain in smart oil industry applications
- Testing, simulation, and performance analysis is blockchain
- Blockchain applications in IoT: case studies

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