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Mathematical Research for Blockchain Economy

1st International Conference MARBLE 2019, Santorini, Greece

- Focuses on the mathematics behind blockchain to bridge the gap between practice and theory
- Presents challenges and limitations to blockchain applications, and approaches to overcome them
- Contributes to the development of cryptoeconomics as a formal discipline

This book presents the best papers from the 1st International Conference on Mathematical Research for Blockchain Economy (MARBLE) 2019, held in Santorini, Greece. While most blockchain conferences and forums are dedicated to business applications, product development or Initial Coin Offering (ICO) launches, this conference focused on the mathematics behind blockchain to bridge the gap between practice and theory. Every year, thousands of blockchain projects are launched and circulated in the market, and there is a tremendous wealth of blockchain applications, from finance to healthcare, education, media, logistics and more. However, due to theoretical and technical barriers, most of these applications are impractical for use in a real-world business context. The papers in this book reveal the challenges and limitations, such as scalability, latency, privacy and security, and showcase solutions and developments to overcome them.

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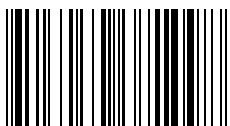
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