

A Note from the Editors

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In many ways, the focus of this year’s volume has been sustainability, with papers not only on the technologies’ interactions with the environment, but also on stability and scaling for the future.

In “Economics of Open-Source Solar Photovoltaic Powered Cryptocurrency Mining,” Matthew Tiger McDonald, Koami Soulemane Hayibo, Finn Hafting, and Joshua M. Pearce of Canada’s Western University performed a feasibility study on using PV systems to mine cryptocurrency at various scales, providing a methodology for standardizable ROI calculations.

In “A Token Economics Explanation for the De-Pegging of the Algorithmic Stablecoin: Analysis of the Case of Terra,” Hansung University’s Jaewoo Cho provided us with a clear, peer-reviewed analysis of the de-pegging and concomitant collapse of Terra in May of 2022.

In “Blockchains and Triple-Entry Accounting for B2B Business Models,” Muhammad Imran Sarwar, Kashif Nisar, Imran Khan, and Danish Shehzad of Superior University Lahore surveyed the current state of research about the use of blockchains for securing business transactions with triple-entry accounting.

In “Irrational Economic Action: Running a Bitcoin Lightning Node for Negative Profit,” Edward Gotham of Feng Chia University delved into the economics of Bitcoin’s most well-known Layer-2 scaling solution, the Lightning Network.

And in “Tokenized Carbon Credits,” Derek Sorensen of the University of Cambridge’s Cambridge Centre for Carbon Credits gave us a state-of-the-field of carbon credit tokenization and challenges to interoperability in the sector.

These papers work well together, and we’re pleased to be able to present them to you, our readers, in a single volume.

Meanwhile, there’s a lot to look forward to next year, as well.

In June, thanks in no small part to the contributions of our new Editor-in-Chief, Prof. Claudio Tessone, we partnered with the inaugural ChainScience Conference in Boston, and are in the process of putting together an invitational special issue built around much of the research presented there. In 2024, we are looking forward to working with them again, and also toward further expanding our partnerships with other global academic conferences and organizations.

The landscape remains challenging for cryptocurrency research, with an academic workforce that is asked to do ever more with less and less. We remain incredibly grateful to our reviewers, without whose generous contributions in time and expertise the journal could not survive; to our current and past sponsors, who quite literally keep the lights on; and to our authors, whose brilliant work gives the journal a reason to exist.

And thank you, as ever, for reading, sharing, and building on the work we publish. We hope to see you back in 2024.

Sincerely,

Richard Ford Burley, Managing Editor
bitcoincash:qqn4432x6j2n8s2sxr29acntdxnrhh3tvyqqge0wpv

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LEDGER VOL 8 (2023)

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