



News & Views

The first international conference on sustainable energy, blockchain, and cryptocurrency (SEBC-2022)

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The first international conference on sustainable energy, blockchain, and cryptocurrency (SEBC-2022) was an online conference organized by "Future Publishing LLC" [1] on August 01-03, 2022. The SEBC-2022 was supported by Ocean Falls Blockchain [2], Guidehouse Insights [3], CoinPedia Fintech News [4], and WAM [5]. The SEBC conferences are platforms for sophisticated professors, researchers, engineers, and managers from the academic world, financial and blockchain companies, and digital coin developers to demonstrate their constructive activities and discuss "how to make a clean and environmentally friendly digital world?" The objective of the SEBC-2022 conference was to provide a forum for scientists and researchers from academia and industry to discuss critical challenges in sustainable energy, blockchain, and cryptocurrency. Particularly, presentations, discussions, and exchange of knowledge focused on the following areas:

1. Energy and Cryptocurrency

- Renewable and Sustainable Energy Sources
- Clean Mining Technology
- Sustainability in Cryptocurrency
- Green Electricity
- Solar Energy
- Hydropower
- Wind Power
- Geothermal Power
- Tidal Power
- Biomass and Biogas
- Fuel Cell
- Climate Change and Environmental Issues

2. Blockchain

- Blockchain in Social Networking
- Blockchain in Cyber-physical Systems
- Blockchain and Distributed Ledger Technology
- Blockchain in Mobile Cellular Networks
- Blockchain Technology in the Marketing System
- Manufacturing Supply Chain Data Management
- Blockchain and Electric Vehicles
- Blockchain and Energy Sectors
- Blockchain and Financial Services
- Blockchain in Hospitality and Tourism Sectors
- Blockchain and Smart Grid
- Blockchain and E-healthcare Systems

3. Smart City

- Smart City and Infrastructural Development
- New technologies for Smart Environment
- Renewable Energy and Smart Grids
- Policy Development in Smart Communities

- Mobile Crowdsourcing for Smart Cities
 - Socio-technical Challenges in the Implementation of Smart Communities
 - Smart Cities and Socio-economic Development
- ## 4. Financial Technologies
- Artificial Intelligence and Machine Learning in finance
 - Cryptocurrencies and Regulation
 - Financial Innovation, Entrepreneurship, and Start-up Funding
 - Digital and Mobile Banking
 - Mobile Wallets
 - Cybersecurity and Consumer Data Protection
 - Digital Supply Chain Management

In the welcome speech, Professor Seyed Ehsan Hosseini [6], the chair of the conference, pointed out "to make cryptocurrency technology sustainable, using renewables such as photovoltaic solar power, wind energy, tidal power, geothermal power, hydroelectric power, fuel cell, and biomass must be developed". In his presentation, he explained how cryptocurrency could be used to develop renewable energy.



Professor Seyed Ehsan Hosseini, Arkansas Tech University, Executive Chair of SEBC-2022

In his keynote speech, Professor Nir Kshetri [7], from the University of North Carolina-Greensboro, USA, presented blockchains' energy consumption and environmental impacts with a special focus on the political and social discourses and key argumentations. Professor Kshetri has authored twelve books and about 200 academic articles, and his books and

articles have been translated into Arabic, Chinese, German, Spanish, French, Japanese, Portuguese, and other languages.



Professor Nir Kshetri, the University of North Carolina-Greensboro, USA

Due to his novel scientific contribution to the area of blockchain, Professor Kshetri received the “Future Lifetime Achievement Award”. This award honors outstanding leaders in Energy, Environment, and Technology who have made significant contributions to the advancement of sustainability in the world, and their research supports the future. This award is intended for individuals with valuable accomplishments in the field of sustainability who have had a significant impact on the future of the world’s environment.

Professor Mark A. Jamison [8], from the University of Florida, USA, talked about “A Marketplace for Sustainable Blockchain and Cryptocurrencies”. In his keynote presentation, Professor Jamison pointed out that the crash of crypto and NFT market values highlights where these vehicles fit into investors’ risk management strategies, entrepreneurs’ and consumers’ transaction strategies, and governments’ regulatory schemes. He also mentioned that “Developers’ choices regarding energy sustainability affect these players’ strategic choices and also become a lever that competitors to the crypto and NFT marketplaces can and do use to gain a regulatory advantage.”



Professor Mark A. Jamison, the University of Florida, USA

Professor Jamison is the Gerald Gunter Professor and Director of the University of Florida’s Public Utility Research Center and the director of the university’s Digital Markets Initiative. He is also a Non-Resident Senior Fellow with the American Enterprise Institute. He is the co-founder of the Florida Blockchain Think Tank and of the Metaverse Think Tank. Due to his novel scientific contribution to the area of network industries, Professor Jamison received “Future Lifetime Achievement Award”.

The philosophy of the SEBC-2022 conference was to address the energy and environmental concerns related to the development of the digital world. In this context, 68 conference participants and 26 papers were presented during the conference sessions. The catalog of the conference, including the biography of the presenters and their abstract, is given in Appendix I. The SEBC-2022 speakers and participants were from the United States, Canada, Europe (UK, Spain, Romania, Austria, Denmark), Asia (Japan, India, Malaysia, Singapore, and United Arab Emirates), and Australia. All submitted abstracts were reviewed and accepted by the SEBC-2022 Scientific Committee. Selected papers have been invited for publication in Future Technology Journal [9], and next published after the second round of review. Special thanks should be directed to the Members of the Scientific Committee and Reviewers for reviewing the conference abstracts. Their valuable comments contributed to the enhancement of the quality of the conference. The Second International Conference on Sustainable Energy Blockchain & Cryptocurrency (SEBC-2023) [10] will be on August 01-02, 2023 (online), and all professors, researchers, CTO’s, Heads of Innovation and Technology, IT Directors, Telecom Providers, Developers, Government, Technology Providers, Investors are invited to participate in this conference actively.

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