



**Blockchain and Cryptocurrency
Conference (B2C' 2023)**

Conference Programme

**18-20 October 2023
Corfu, Greece**



Organized by:



Message from Chairman

On behalf of Organizing Committee, I would like to welcome you to the 2nd *Blockchain and Cryptocurrency Conference (B2C '2023)*, 18-20 October 2023, Corfu, Greece.

Blockchain and cryptocurrencies are now topics of substantial impact that society needs to contemplate, exploit and adopt. According to the recent market study, the global blockchain technology market was valued at 10.02 billion US \$ in 2022. This is forecast to reach 1,235.71 billion US \$ by 2030, representing a compound annual growth rate of 87.7

%. The major driving factors contributing to the high growth rate of Blockchain Market include increasing venture capital funding and investment in blockchain technology; extensive use of blockchain solutions in banking and cybersecurity; high adoption of blockchain solutions for payment, smart contracts, and digital identities; and rising government initiatives. The main restrictions of the market growing are uncertain regulatory, compliance environment lack of skilled professionals. The main goal of the B2C' 2023 conference is to decrease significantly, and to help eliminate completely in the future, the mentioned above restraints.

The second Blockchain and Cryptocurrency Conference (B2C' 2023) aims to provide a forum for researchers, scientists, engineers, and students from both the industry and the academia to present their latest research findings, advances and innovations on blockchain technologies as well as to help decision-makers, technologists, and developers understand the value of blockchain to their businesses regardless of industry.

It will feature keynotes, peer-reviewed technical paper presentations, companies, research institutes and academia. The event will be also the forum for exchange of the latest innovation results, regulations, policies, standards, and applications in this exciting and challenging area.

Unlike existing, narrowly focused technical conferences and commercial trade events, the B2C' 2023 will cover all technical and social aspects of blockchain and cryptocurrency.

The B2C' 2023 is organized and sponsored by IFSA - the non-profit professional association serving for industry and academy since 1999, together with their media partners.

We trust that you will find the B2C' 2023 professionally rewarding and stimulating as well as enjoyable. Welcome B2C' 2023 !

Prof., Dr. Sergey Y. Yurish
B2C' 2023 Conference Chairman

Conferences Venue

The Conference will take place on 18-20 October 2023 in Kerkira (Corfu Island), Greece, *Corfu Holiday Palace* hotel, conference rooms *ZANTE / LEFKAS*.

Registration

The Registration Desk will be opened in the *Corfu Holiday Palace* Hotel near *ZANTE / LEFKAS* conference rooms:

- Wednesday, 18 October, from 8:45-18:00
- Thursday, 19 October, from 8:45-18:00
- Friday, 20 October, from 8:45-12:00

Language

The official language of the Conferences is English. There will be no simultaneous interpretation.

Insurance and Liability

The conferences organizers do not accept responsibility for any individual, medical, travel or personal insurance policies as necessary.

Conference Identification Tag

The Organizing Committee request that you wear your identification tag (badge) at all times during the conference. Your conference identification tag will serve as your admission to all conference paper presentation sessions and social event.

Coffee/Tea Refreshment

Coffee/tea will be served at the times indicated in the programme near the conference rooms *ZANTE / LEFKAS*.

Gala Dinner

Thursday, 19 October (20:00-23:30). The Gala Dinner will take place in the *Corfu Holiday Palace* event hotel, *Nausica Ballroom*.

Post-Conference Publications

Selected and extended papers presented at the conference will be published in a new, open access journal *Blockchain & Cryptocurrency* by *IFSA Publishing* (Barcelona, Spain). The publication in this journal is free of charge for all B2C' 2023 conference participants.

Authors will be also invited to extend their paper or/and articles into the book chapters for the '*Advances in Blockchain & Cryptocurrency*,' Vol. 2. This open access books will be published in 2024 by *IFSA Publishing, S. L.*

All B2C' 2023 participants will have a special discount for this open access book's publication fee.

Organizing Committee

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Prof., Dr. Sergey Y. Yurish

IFSA President, Co-founder and CEO of Eco IFSA, Barcelona, Spain

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Prof., Dr. Vijyakumar Varadarajan

The University of New South Wales, Australia

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Local Time

The local time in Corfu is GMT+3.

Conference web site:

<https://www.b2c-conference.com>

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Keynote Speaker I



Asst. Prof., Dr. Tan Gürpınar
*Business Analytics and Information Systems,
School of Business, Quinnipiac University,
Hamden, CT, USA*

The Right Time for Enterprise Blockchains

Abstract

While cryptocurrencies are taking up more and more space in the financial sector, enterprise blockchains have experienced setbacks in terms of enterprise adoption. Still, the future of business processes is digital and blockchains are going to play their part. In this keynote, we will cover prerequisites for and the right time of a meaningful and sustainable use of enterprise blockchain solutions across various industries.

Short Biography

Tan Gürpınar is an Assistant Professor of Business Analytics & Information Systems at Quinnipiac University in Hamden, Connecticut where he conducts research on the impact of blockchain solutions on sustainability. He is also affiliated with Fraunhofer Institute for Material Flow and Logistics, Dortmund, Germany where he worked as a Product Manager and supported enterprises on their journey to integrate and assess blockchain solutions.

Keynote Speaker II



Dr. Anjum Khurshid

*Faculty at Harvard Medical School and the
Harvard Pilgrim
Health Care Institute,
(USA)*

Opportunities and Challenges of Using Blockchain-based Applications for Population Health

Abstract:

The presentation will focus on identifying briefly how blockchain technology's distributed ledger framework addresses some system-level health data challenges and provides useful opportunities to build applications in specific areas of health. Examples of blockchain-based platforms that allow patients to control their identity and consent while still participating in care and research activities will be shared. Policy and technology challenges in implementing and adopting such systems will also be discussed.

Short Biography

Dr. Anjum Khurshid is a Member of the Faculty at Harvard Medical School and the Harvard Pilgrim Health Care Institute. He is the Chief Data Scientist for the Sentinel Operations Center, a national drug surveillance program. Dr. Khurshid was previously the Co-Chief, Health Informatics, Data Science and Epidemiology Division, Department of Population Health and Associate Professor at Dell Medical School, The University of Texas at Austin. He has served on the United States' Federal Advisory Committee for Health Information Technology, a congressionally mandated advisory body, and as a patient engagement advisor to the Patient Centered Outcomes Research Institute, Washington DC. He is a Fellow of the American Medical Informatics Association and on the editorial board of Blockchain in Health Today. Dr. Khurshid earned his medical degree from King Edward Medical University, Lahore and his Masters in Public Affairs and PhD in Public Policy from the University of Texas at Austin.

Keynote Speaker III



Dr. Erol User

*President & CEO at User Corporation /
Founder and President at Blockchainarmy
(Turkey)*

Blockchain 4.0

Abstract

Like any other technology the Blockchain went through stages and evolved as it progressed and matured. This paper describes each version of Blockchain. Blockchain 4.0 is focused on innovation. Speed, user experience and usability by larger and common mass will be the key focus areas for Blockchain 4.0. The Blockchain 4.0 applications can be divided into two verticals: Web 3.0 and Metaverse.

Blockchain 4.0 will enable businesses to move some or all of their current operations onto secure, self-recording applications based on decentralized, trustless, and encrypted ledgers. Businesses and institutions can easily enjoy the basic benefits of the Blockchain.

Short Biography

Multi-Award-winning entrepreneur, veteran businessman, philanthropist, business/financial coach and educator, Erol User is one of Turkish's pioneering game changers in the business world. Born in Istanbul, in 1960, User brings over 30 years' experience in a wide range of industries and sectors. As a distinguished entrepreneur, and Blockchain Analyst, he brings a proven track record and demonstrated excellence to transform digital services in the fields of Investment Banking, Energy, Blockchain, Cryptocurrency, Mergers, Acquisitions, Privatizations and IT.

Mr. User is currently the President and CEO of User Corporation, - a world-leading investment banking company, offering advisory services both to Turkish and International companies. He is a graduate of Economic Sciences with double majors in Business Administration and Finance from Istanbul University. As

someone who loves to broaden his knowledge of study, Mr. User holds an MBA degree from Harvard Business School, a postgraduate degree in International Leadership from Sophia University, Japan, an MSc degree in Renewable Energy from Vienna Technical University. He has also obtained a postgraduate degree in Blockchain Strategy from Oxford Said Business School and in Cryptocurrency and Disruption from the London School of Economics (LSE), in Blockchain Technologies from MIT Sloan School.

He is a visionary leader, with strong entrepreneur background adept with the knowledge of organizational development, through visioning, strategic planning, evaluation, monitoring, and trusted advisory support. Mr. User is also the Founder, President and Board Member of many organizations or associations to include: JCI Turkey, Worldwatch Institute Europe, TUGIAD, DEIK, TESEV, TEMA, Conference Board, Club of Rome, Club of Budapest, European Business Roundtable, R. Kennedy Human Rights Foundation Leadership Global Compact, Abraham's Path, Mahatma Gandhi Arise India, The Aladdin Project and Kids parliament. He is The Chairman of the Supervisory Board of the Blockchainacademy Istanbul Aydin University. As someone who loves giving back to his community, User is passionate about supporting many philanthropic initiatives. Seeking to impact his passion to many, he has written many books on Economy, Energy, Internet of Things, Metaverse, Crypto Money and Blockchain.

Programme at Glance

Date Time (GMT+3)	18.10.2023 Wednesday	19.10.2023 Thursday	20.10.2023 Friday
9:45-10:00	Registration	Registration	Registration
10:00-10:15	* Opening Session (Sergey Y. Yurish, Chairman)	* Daily Notifications	* Daily Notifications
10:15-11:00	Keynote Speaker I Asst. Prof., Dr. Tan Gürpınar (USA)	Keynote Speaker II Dr. Anjum Khurshid (USA)	Keynote Speaker III Dr. Erol User (Turkey)
11:00-11:30	Coffee Break	<i>Coffee Break</i>	<i>Coffee Break</i>
11:30-13:30	Regular Session: <i>Blockchain Theory and Applications</i>	Regular Session: <i>FinTech, DeFi, NTF, Crypto- and Digital Currency</i>	Zoom Session: <i>Blockchain Applications</i>
13:30-15:00	<i>Lunch on your own</i>	<i>Lunch on your own</i>	* Farewell Cocktail & Closing Session (Sergey Y. Yurish, Chairman)
15:00-17:00	Regular Session: <i>Integration of Backchain with Other Emerging Technologies</i>	-	-
17:00-20:00	-	-	-
20:00-23:30	-	Gala Dinner	-

* - the must attend sessions

The time in the table and in the technical programme below is the local time in Corfu: GMT+3.

Technical Conference Programme

Day 1

18 October 2023, Wednesday

Regular Session: Blockchain Theory and Applications

Chairman: Asst. Prof., Dr. Tan Gürpınar
*Business Analytics and Information Systems, School of Business,
Quinnipiac University, Hamden, CT, USA*

- 1. The Economics of Blockchain Governance: Evaluate Liquid Democracy on the Internet Computer (pre-recorded video presentation)**
*Yulin Liu and Luyao Zhang
(UK, China)*
- 2. A Framework for Proof-of-Useful-Work Consensus Protocol**
*Ognjen Nešković, Pavle Sekešan, Bharat Sharma, Dusan Ramljak,
Milan Todorovic and Tatjana Davidovic
(Serbia, USA)*
- 3. Proof-of-Evidence (PoE) Protocol for a Secure, Efficient and Impartial Cryptocurrency Network**
*Sam Goundar, Simegneu Meheretu and Serlakem Yikeber
(Viet Nam, Ethiopia)*
- 4. Reducing the Variance of Rights Distributions in Proof of Stake Protocols**
Maxime Reynouard (Germany)

**Regular Session:
Integration of Backchain with Other
Emerging Technologies**

*Chairman: Dr. Anjum Khurshid
Faculty at Harvard Medical School and the Harvard Pilgrim
Health Care Institute, (USA)*

- 1. Exploring Privacy-Preserving Approaches for Leveraging Verifiable Credentials on Blockchain: A Comparative Analysis**
Selin Sezer and Wolfgang Prinz (Germany)

- 2. Exploring Account Abstraction: Addressing Challenges in Private Key Management for Mainstream Adoption of Blockchain Technology**
Ivan Dimitrov and Wolfgang Prinz (Germany)

- 3. GEEK- A Blockchain Based Marketplace (pre-recorded video presentation)**
*Ece Işık, Orhun Kerem Yakut, Gizem Hacıoğlu, Edanur Beder and Yusuf Murat Erten
(Turkey)*

- 4. Towards a Definition of the Industrial Metaverse Applied in Context of the Blockchain and Web3 Ecosystem**
Orhan Küpeli and Tan Gürpınar (Germany, USA)

Day 2
19 October 2023, Thursday

**Regular Session:
FinTech, DeFi, NTF, Crypto-
and Digital Currency**

Chairman: Prof., Dr. Tatjana Davidovic
*Mathematical Institute, Serbian Academy of Science and Arts
(Serbia)*

- 1. Exploring Compliance in the Cryptocurrency Ecosystem:
An Empirical Study on Tax Regulation and Policy Effectiveness**
*Nirmalee Raddatz, Paul Raddatz, Hannah Smith and Lauren Cooper
(USA)*
- 2. Know your Tokens: Risks, Governance, and Compliance
Challenges in Trading of Non-fungible Tokens**
Geetika Jain and Dimitris Kafteranis (UK)
- 3. Secure Arbitrage Trades Between Centralized and Decentralized
Exchanges**
Marc Jansen (Germany)
- 4. What Matters to Investors' Sentiment in DeFi ?**
*Xiuping Wu, Qingquan Zhang, Ben Mcmillan and Wei Tang
(UK, USA)*
- 5. Putting Safe Haven Currencies to the Test by Using Robust Two
Times Scaled Covariance Estimator**
*Maria Culjak, Josip Arneric, Sasa Zikovic and Gazi Salah Uddin
(Germany, Croatia, Sweden)*
- 6. Securing Privacy in Offline Payment for Retail CBDC:
a Comprehensive Framework**
*Olivier Atangana, Morgan Barbier, Lyes Khoukhi and Willy Royer
(France)*

Day 3
20 October 2023, Friday

**Virtual Session in Zoom (Live Streams):
Blockchain Applications**

Chairman: Dr. Sergey Y. Yurish
Eco-IFSA (Spain)

- 1. Blockchain Data-Driven Algorithms for Price Prediction**
Mariam Ait Al, Said Achchab and Younes Lahrichi (Morocco)
 - 2. Monetization Strategies for Battle Royale Gameplay**
Ryan Nadar (India)
 - 3. Integration of Blockchain with Internet of things (IoT) for Secure Water Quality Control & Monitoring**
Martin Parmar and Parth Shah (India)
 - 4. Blockchain and Machine Learning-Enabled Predictive Supply Chain Tracking System for Optimized Vaccination Allocation**
Punam Rattan, Raji Nair and Alen Joseph (India)
 - 5. Psephos: a Blockchain-based Voting System**
Eduardo da Silva and Allan Freitas (Brazil)
 - 6. A New Evidence to Assess the Price Clustering of Bitcoin: An Empirical Investigation Based on Bayesian Network**
Fatma Hachicha (Tunisia)
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