

# SOFA 2020

## 9TH INTERNATIONAL WORKSHOP ON SOFT COMPUTING APPLICATIONS

"Aurel Vlaicu" University of Arad, Faculty of Exact Science

27-29 NOV-2020 ARAD, ROMANIA

<b>Conference website</b>	<a href="https://www.sofa-org.eu/2020/">https://www.sofa-org.eu/2020/</a>
<b>Submission link</b>	<a href="https://easychair.org/conferences/?conf=sofa2020">https://easychair.org/conferences/?conf=sofa2020</a>

### Special Session: Blockchain Computing and Applications

#### Scope and Topics:

The aim of this special session is to explore and debate the main concepts and implications of blockchain technology, how it can be a driver of innovation and positive effects in our societies, industry, legal systems and economic/financial system. Also the risks and uncertainties that blockchain brings are welcomed to be debated in this section.

Blockchain is the technology that created the cyber ecosystem which uses trusted records to store data permanently on the Internet in a decentralized manner. This way blockchain provides a method to designate the owner of each piece of data, to trade data, to market them and it is expected to give data the status of a new production factor. This evolutionary technology has impacted the economic sector in unprecedented ways and it is continuing to evolve. Cryptocurrencies are the first applicability of blockchain technology and they started new structures of financial systems which evolutions are also covered in this session.

In this session professionals and academics of the field are invited to discuss the impact, future and limitations of blockchain technology regarding its effect across specific industries, economic, finance and medical sector, law and governance.

For this session we seek original, unpublished contributions that are mainly focused on, but not necessarily limited to, the following topics:

1. Blockchain issues and trends
2. Blockchain and Cryptocurrency
3. Blockchain Attacks on Existing Systems
4. Blockchain consensus and fault tolerance mechanisms
5. Blockchain system design, performance and optimization
6. Blockchain and trust management
7. Blockchain-based security for the IoT
8. Blockchain, Bigdata and IOT advances
9. Blockchain in social networking
10. Blockchain schemes for decentralization
11. Blockchain in supply chain management
12. Blockchain in connected and autonomous vehicles
13. Blockchain in next generation communications and networks
14. Smart contract and chain code
15. Theories of blockchain and distributed ledger technology

16. Performance analysis and optimization
17. Cryptocurrency adoption and economic impacts
18. Regulations & Policies in Cryptocurrency
19. Digital Wallets, Coin Exchange, Initial Coin Offering
20. Security, privacy and trust of blockchain and distributed ledger technology
21. Anonymity and Criminal Activities of the cryptocurrency
22. Managing the Risks of Cryptocurrency
23. Fraud detection and financial crime prevention Identity, Identification and trust in blockchain systems
24. Integration of Blockchain in different industries and their future

## Special Session Organizers:



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## Invited Talks:



Razvan E. Miutescu  
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Razvan Miutescu is an experienced technology and information governance attorney. He assists clients with privacy and data security, information technology transactions, software distribution + cloud services, distributed ledgers + blockchain, digital media + ecommerce, and related regulatory and compliance matters. He has been a co-chair of the Data Privacy, Cyber Security & Technology subcommittee of the Maryland State Bar Association since 2015. He is an active member of the tech and innovation community in the Washington, D.C. – Maryland – Virginia area. He is also a board member of the Washington, D.C. Chapter of the Romanian American Chamber of Commerce.