Conceptualization of A GDPR-Mining Blockchain-Based Auditor: A Systematic Review

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Presenter
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Bio

Gholamhossein Kazemi

• Member of National Organization for Development of Exceptional Talents of Iran since 2001
• Holding a bachelor degree of Information Technology Engineering
• Master student of Management Information Systems at USN University of Norway
• Co-Founder of Hiva co since 2017
• Co-Founder of Diginorth co since 2021
• Interest and experience in digitalization of organizations and businesses
Gholamhossein Kazemi

- Blockchain applications
- Risk management and risk mitigations
- Digitalization

Shegaw Anagaw Mengiste:

- IS/IT innovation
- Health information systems
- Digitalization of public sector organizations
- IT governance and management
- IoT
- Smart cities
Introduction

- Contradictory opinions about Blockchain-GDPR compliance
- Blockchain applications
- Two-way Data monetization
- Blockchain as a solution to monetized personal data management
Systematic Literature Review

• **Process**
  Criteria

• **Constructs**
  GDPR
  Blockchain
  Consensus Algorithm

• **Applications of Blockchain**

• **Compliance of BC-GDPR**
Results and Gaps

Results
• Capabilities of blockchain as a GDPR-compatible solution
• Classification of the applications of blockchain
• One-way Monetized personal data management systems

Gaps
Two-way Monetized GDPR-Compliant data management
A conceptual GDPR-Mining Blockchain-Based Auditor

Three-layered Blockchain
- Public, Private, Consortium

Two-way Monetized Data Managing
- Smart Contracts, Off-Chain storage

Transaction Audition
- GDPR act, Purpose, Transparency

Consensuses
- PoW, DPoS, ZKP

GDPR Mining
- Acts, Nodes, Audition
Conclusion and Future Work

- Blockchain as a solution before and after launch of GDPR
- This is a conceptual model and needs further development to become a pragmatic model
THANK YOU

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