

Cele mai relevante 10 publicații

Articole de jurnal

1. **Mitrea, D.**, Cioara, T., Anghel, I., & Todorean, L. (2025): Evolutionary game for incentivizing social cooperation of prosumers in transactive energy communities. *Elsevier Energy and Buildings*, 327, 115057 - **Impact Factor: 6.6 – Q1**. <https://www.sciencedirect.com/science/article/pii/S0378778824011733>
2. **Mitrea, D.**, Todorean, L., Cioara, T., Anghel, I., & Antal, M. (2023): Smart contracts and homomorphic encryption for private P2P energy trading and demand response on blockchain. *Elsevier Heliyon*, 9(11) - **Impact Factor: 3.4 – Q2** [https://www.cell.com/heliyon/fulltext/S2405-8440\(23\)09565-8](https://www.cell.com/heliyon/fulltext/S2405-8440(23)09565-8)
3. **Mitrea, D.**, Chifu, V., Cioara, T., Anghel, I., & Pop, C. B. (2024): Social Factors in P2P Energy Trading Using Hedonic Games. *IEEE Access Journal*, **Impact Factor: 3.4 – Q2**. <https://ieeexplore.ieee.org/document/10533250>
4. **Mitrea, D.**, Cioara, T., & Anghel, I. (2023): Privacy-preserving computation for peer-to-peer energy trading on a public blockchain. *Sensors Journal*, 23(10), 4640 - **Impact Factor: 3.7 – Q2**. <https://www.mdpi.com/1424-8220/23/10/4640>
5. Cioara, T., Antal, C. D., Anghel, I. M., **Mitrea, D.**, et al., (2021). Blockchain-based decentralized virtual power plants of small prosumers. *IEEE Access Journal*, 9, 29490-29504, **Impact Factor: 3.4–Q2**. <https://ieeexplore.ieee.org/abstract/document/9353538>
6. Antal, C., Cioara, T., Antal, M., **Mitrea, D.**, et al. (2021): Blockchain based decentralized local energy flexibility market. *Elsevier Energy Reports*, 7, 5269-5288 - **Impact Factor: 5-Q2**. <https://www.sciencedirect.com/science/article/pii/S2352484721007204>
7. Marin, O., Cioara, T., Todorean, L., **Mitrea, D.**, & Anghel, I. (2023): Review of blockchain tokens creation and valuation. *Future Internet Journal*, 15(12), 382 - **Impact Factor: 2.8 – Q2**. <https://www.mdpi.com/1999-5903/15/12/382>

Articole de conferință

8. **Mitrea, D.**, Todorean, L., Cioara, T., Anghel, I., et al. (2023, July): Matching Mechanisms for Buildings Energy Flexibility Orders in P2P Local Markets. *14th International Conference on Information, Intelligence, Systems & Applications (IISA)* (pp. 1-7). IEEE. <https://ieeexplore.ieee.org/abstract/document/10345897>
9. Cioara, T., Todorean, L., **Mitrea, D.**, et al., (2022, September): Decentralized demand response in energy communities using blockchain. *Workshop on Blockchain for Renewables Integration (BLORIN)* (pp. 7-12). IEEE. <https://ieeexplore.ieee.org/abstract/document/10028148>

10. Candrea, C., **Mitrea, D.**, & Cioara, T. (2024, October): Self-Sovereign Identity System Using Blockchain and Smart Contracts. *IEEE 20th International Conference on Intelligent Computer Communication and Processing (ICCP)* (pp. 1-6). IEEE. <https://ieeexplore.ieee.org/abstract/document/10792994>

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Activități științifice

Publicații

Articole de jurnal

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9. Todorean, L., **Mitrea, D.**, Cioara, T., et. al., (2021, October): A lockable ERC20 token for peer-to-peer energy trading. *IEEE 17th International Conference on Intelligent*

Computer Communication and Processing (ICCP) (pp. 145-151). IEEE. <https://ieeexplore.ieee.org/abstract/document/9733665>

10. Cioara, T., Todorean, L., **Mitrea, D.**, et. al., (2022, September): Decentralized demand response in energy communities using blockchain. *Workshop on Blockchain for Renewables Integration (BLORIN)* (pp. 7-12). IEEE. <https://ieeexplore.ieee.org/abstract/document/10028148>
11. Candrea, C., **Mitrea, D.**, & Cioara, T. (2024, October): Self-Sovereign Identity System Using Blockchain and Smart Contracts. *IEEE 20th International Conference on Intelligent Computer Communication and Processing (ICCP)* (pp. 1-6). IEEE. <https://ieeexplore.ieee.org/abstract/document/10792994>

Proiecte de cercetare

1. **Horizon Hedge-IoT** – Holistic approach towards Empowerment of the Digitalization of the Energy Ecosystem through adoption of IoT Solutions across different levels and infusing intelligence into the edge and cloud layers. <https://hedgeiot.eu>
2. **Horizon Dedalus** – Dedalus aims to empower residential consumers to engage in adaptable, tech-driven energy management solutions, by combining ICT technologies with social and behavioural dimensions. <https://dedalus-horizon.eu/>
3. **H2020 Bright** – Boosting Demand-Response through increased community-level consumer engagement, by combining data-driven and blockchain technology tools with social science approaches and multi-value service design. <https://www.brightproject.eu/>
4. **H2020 eDream** - enabling new Demand Response Advanced, Market oriented and secure technologies, solutions and business models 2018-2021. <http://edream-h2020.eu/>
5. **H2020 Catalyst** - Converting DCs in Energy Flexibility Ecosystems 2017-2020 <http://project-catalyst.eu/>
6. **AAL REMIND**, Robotic ePartner for Multitarget INnovative activation of people with Dementia, 2018-2021 <https://www.aalremind.eu/>
7. **AAL MedGuide** - ICT Integrated System for Coordinated Polypharmacy Management in Dementia Patients 2017-2019 <http://medguide-aal.eu/>

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