

Achieving a high level of open market-information symmetry with decentralised insurance marketplaces on blockchains
Norta, Alexander; Rossar, Risto; Parve, Mart; Laas-Billson, Liina Intelligent Computing : proceedings of the 2019 Computing Conference. Volume 1 2019 / p. 299-318 https://doi.org/10.1007/978-3-030-22871-2_22 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Aggregator based coordinated Transactive Energy trading between Microgrids

Crasta, Cletus J.; Mishra, Sambeet; Agabus, Hannes; Palu, Ivo 2020 International Conference on Smart Grids and Energy Systems (SGES) 2020 <https://doi.org/10.1109/SGES51519.2020.00166>

Auto-generation of smart contracts from a domain-specific XML-based language

Dwivedi, Vimal Kumar; Norta, Alexander Intelligent Data Engineering and Analytics 2022 / p. 549-564 https://doi.org/10.1007/978-981-16-6624-7_54 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Beyond high-tech versus low-tech : a tentative framework for sustainable urban data governance

Kostakis, Vasileios; Pazaitis, Alexandros; Liarakapis, Minas Big data and society 2023 / 6 p. : ill <https://doi.org/10.1177/20539517231180583> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

BLAIC 2022: 1stworkshop on blockchain and AI for community : chairs' welcome and workshop summary

Cheah, WaiShiang; Norta, Alex; **Ben Yahia, Sadok;** Hakiri, Akram; Sim, Yee Wai WebSci '22: Proceedings of the 14th ACM Web Science Conference 2022 2022 / p. 433 - 434 <https://doi.org/10.1145/3501247.3539019> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Blockchain and value systems in the sharing economy : the illustrative case of backfeed [Online resource]

Pazaitis, Alexandros; De Filippi, Primavera; **Kostakis, Vasileios** 2017 <http://technologygovernance.eu/files/main//2017012509590909.pdf>

Blockchain and value systems in the sharing economy: The illustrative case of Backfeed

Pazaitis, Alexandros; De Filippi, Primavera; **Kostakis, Vasileios** Technological forecasting and social change 2017 / p. 105-115 : ill <https://doi.org/10.1016/j.techfore.2017.05.025> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Blockchain implementation barriers in maritime: a case study based on ISM and MICMAC techniques

Bauk, Sanja; Ntshangase, Lindani Handsome Journal of maritime research 2023 / p. 72-80 <https://www.jmr.unican.es/index.php/jmr/article/view/736/766> [Journal metrics at Scopus](#) [Article at Scopus](#)

Blockchain in maritime : pros and cons

Ntshangase, Lindani Handsome; **Bauk, Sanja** XVI međunaroni naučno-stručni skup Informacione Tehnologije za e-Obrazovanje : ITeO : zbornik radova 2024 / p. 36-41 https://iteo.rs.ba/sites/default/files/ITeO_Zbornik%20radova%202024%20%281%29.pdf

Blockchain-based medical decision support system

Hovorushchenko, Tetiana; Hnatchuk, Yelyzaveta; Osyadlyi, Vitaliy; Kapustian, Mariia; **Boyarchuk, Artem** Journal of cyber security and mobility 2023 / p. 253-274 : ill <https://doi.org/10.13052/jcsm2245-1439.123.1> [Journal metrics at Scopus](#) [Article at Scopus](#)

Blockchain-based ontology driven reference framework for security risk management

Iqbal, Mubashar; **Kormiltsyn, Aleksandr;** Dwivedi, Vimal; Matulevičius, Raimundas Data & knowledge engineering 2024 / art. 102257 <https://doi.org/10.1016/j.datak.2023.102257> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

CEDEX : a certified blockchain based diamond exchange : transforming diamonds into a new asset class : white paper [Online resource]

Norta, Alexander; Levi, Saar; Priewer, Ronen; Kif, Evgeni 2017 <https://cedex.com/img/Whitepaper.pdf>

Cross-border capacity-building for port ecosystems in small and medium-sized Baltic ports

Meyer, Christopher; Gerlitz, Laima; Henesey, Lawrence TalTech journal of European studies 2021 / p. 113-132 <https://doi.org/10.2478/bjes-2021-0008> https://www.ester.ee/record=b5290032*est

Data science techniques for cryptocurrency blockchains

Liiv, Innar 2021 <https://doi.org/10.1007/978-981-16-2418-6>

A data-ownership assuring blockchain wallet for privacy-protected data exchange [Online resource]

Hawthorne, Daniel; Engel, Serafin L.; **Norta, Alexander** 2017 https://tokensale.datawallet.com/pdf/datawallet_whitepaper.pdf

Decentralized governance for smart contract platform enabling mobile lite wallets using a proof-of-stake consensus algorithm

Deval, Vipin; Norta, Alexander; Dai, Patrick; Mahi, Neil; Earls, Jordan Blockchain Technology and Innovations in Business Processes 2021 / p. 67–93 https://doi.org/10.1007/978-981-33-6470-7_5 [Collection metrics at Scopus](#) [Article at Scopus](#)

Deep Reinforcement Learning for energy-aware task offloading in join SDN-Blockchain 5G massive IoT edge network
Sellami, Bassem; Hakiri, Akram; **Ben Yahia, Sadok** Future generation computer systems 2022 / p. 363-379
<https://doi.org/10.1016/j.future.2022.07.024> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at Scopus](#) [Article at Scopus](#)

Designing a collaborative construction-project platform on blockchain technology for transparency, traceability, and information symmetry

Udokwu, Chibuzor; Norta, Alexander; Wenna, Christoph ASSE'21 : 2021 2nd Asia Service Sciences and Software Engineering Conference, Macau, Macao, February 24-26, 2021 2021 / 13 p. : ill <https://doi.org/10.1145/3456126.3456134> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Designing a smart-contract application layer for transacting decentralized autonomous organizations

Norta, Alexander Advances in Computing and Data Sciences : first International Conference, ICACDS 2016, Ghaziabad, India, November 11-12, 2016 : revised selected papers 2017 / p. 595-604 https://doi.org/10.1007/978-981-10-5427-3_61 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A formal specification smart-contract language for legally binding decentralized autonomous organizations

Dwivedi, Vimal Kumar; Norta, Alexander; Wulf, Alexander; Leiding, Benjamin; Saxena, Sandeep; **Udokwu, Chibuzor** IEEE Access 2021 / p. 76069–76082 : ill <https://doi.org/10.1109/ACCESS.2021.3081926> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Improving healthcare processes with smart contracts

Kormiltsõn, Aleksandr; Udokwu, Chibuzor; Karu, Kalev; **Thangalimodzi, Kondwani; Norta, Alexander** Business Information Systems : 22nd International Conference, BIS 2019, Seville, Spain, June 26–28, 2019 : proceedings. Part I 2019 / p. 500-513
https://doi.org/10.1007/978-3-030-20485-3_39 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

In search of a coherent international approach to governing technologies [online resource]

Osula, Anna-Maria Digital frontiers 2021 [In search of a coherent international approach to governing technologies](#)

Integration of blockchain technology into a land registration system for immutable traceability : a casestudy of Georgia

Lazuashvili, Nino; Norta, Alexander; Draheim, Dirk Business Process Management : Blockchain and Central and Eastern Europe Forum : BPM 2019 Blockchain and CEE Forum : Vienna, Austria, September 1–6, 2019 : proceedings 2019 / p. 219-233
https://doi.org/10.1007/978-3-030-30429-4_15 [Article collection metrics at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Legally enforceable smart-contract languages : a systematic literature review

Dwivedi, Vimal Kumar; Pattanaik, Vishwajeet; Deval, Vipin; Dixit, Abhishek; Norta, Alexander; Draheim, Dirk ACM computing surveys 2022 / art. 3453475, p. 1–34 <https://doi.org/10.1145/3453475> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A legally relevant socio-technical language development for smart contracts

Dwivedi, Vimal Kumar; Norta, Alexander 2018 IEEE 3rd International Workshops on Foundations and Applications of Self* Systems : (FAS*W), 3–7 September, 2018 Trento, Italy : proceedings 2018 / p. 11-13 <https://doi.org/10.1109/FAS-W.2018.00016>

Lowering financial inclusion barriers with a blockchain-based capital transfer system : whitepaper [Online resource]

Lane, Alexi; Leiding, Benjamin; **Norta, Alexander** 2017 <https://crushcrypto.com/wp-content/uploads/2017/09/EVX-Whitepaper.pdf>

Maintaining data integrity in electronic health records with hyperledger fabric

Kask, Marten; Klementi, Toomas; Piho, Gunnar; Ross, Peeter HEDA 2023: International Health Data Workshop : proceedings of the 3rd International Health Data Workshop (HEDA 2023), co-located with Software Technologies: Applications and Foundations (STAF 2023) : Leicester, United Kingdom, July 21, 2023 2023 <https://ceur-ws.org/Vol-3440/> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Manipulation resistant opinion forming in online communities

Müller, Roman Proceedings of the 4th Interdisciplinary Cyber Research Workshop 2018 : 9th of June 2018 2018 / p. 26-28
https://www.ttu.ee/public/k/kyberkriminalistika_ja_kyberjulgeoleku_keskus/CRW_2018_lingitud.pdf

Mapping requirements specifications into a formalized blockchain-enabled authentication protocol for secured personal identity assurance

Leiding, Benjamin; **Norta, Alexander** Future Data and Security Engineering : 4th International Conference, FDSE 2017, Ho Chi Minh City, Vietnam, November 29 - December 1, 2017 : proceedings 2017 / p. 181-196 : ill https://doi.org/10.1007/978-3-319-70004-5_13 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Mobile smart contracts : exploring scalability challenges and consensus mechanisms

Deval, Vipin; Dwivedi, Vimal Kumar; Dixit, Abhishek; Norta, Alex; Shah, Syed Attique; **Sharma, Rahul; Draheim, Dirk** IEEE Access 2024 / p. 34265 - 34288 <https://doi.org/10.1109/ACCESS.2024.3371901> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mobile smart-contract lifecycle governance with incentivized proof-of-stake for oligopoly-formation prevention

Deval, Vipin; Norta, Alexander 19th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing : CCGRID2019 : proceedings 2019 / p. 165-168 : ill <https://doi.org/10.1109/CCGRID.2019.00029>

Multi-Agent systems and Blockchain: results from a systematic literature review

Calvares, Davide; Dubovitskaya, Alevina; Calbimonte, Jean Paul; **Taveter, Kuldar**; Schumacher, Michael Advances in Practical Applications of Agents, Multi-Agent Systems, and Complexity: The PAAMS Collection : 16th International Conference, PAAMS 2018, Toledo, Spain, June 20–22, 2018 : proceedings 2018 / p. 110-126 https://doi.org/10.1007/978-3-319-94580-4_9 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

PenChain: a blockchain-based platform for penalty-aware service provisioning

Nguyen, Trung-Viet; Le, Lam-Son; Shah, Syed Attique; Hameed, Sufian; **Draheim, Dirk** IEEE Access 2024 / p. 1005-1030 : ill <https://doi.org/10.1109/ACCESS.2023.3344038> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Preserving decentralized EHR-s integrity

Kask, Marten; Klementi, Toomas; Piho, Gunnar; Ross, Peeter Telehealth ecosystems in practice : proceedings of the EFMI special topic conference 2023 2023 / p. 296 - 297 <https://doi.org/10.3233/SHTI230801>

Preventing data-security breaches and patient-safety risks in cross-blockchain e-healthcare systems

Kormiltsõn, Aleksandr; Norta, Alex; Nisar, Sanam; Dwivedi, Vimal Management of Digital EcoSystems : 15th International Conference, MEDES 2023, Heraklion, Crete, Greece, May 5–7, 2023, Revised Selected Papers 2024 / p. 41-54 https://doi.org/10.1007/978-3-031-51643-6_4 [Conference proceedings at scopus](#) [Article at Scopus](#) [Article at WOS](#)

Privacy-conflict resolution for integrating personal and electronic health records in blockchain-based systems

Kormiltsõn, Aleksandr; Udokwu, Chibuzor; Dwivedi, Vimal; Norta, Alex; Nisar, Sanam Blockchain in healthcare today 2023 / art. 276, 27 p.: ill <https://doi.org/10.30953/bhty.v6.276> [Journal metrics at Scopus](#) [Article at Scopus](#)

A privacy-protecting data-exchange wallet with ownership- and monetization capabilities

Norta, Alexander; Hawthorne, Daniel; Engel, Serafin L. 2018 International Joint Conference on Neural Networks (IJCNN) : 2018 proceedings 2018 / p. 4121-4128 : ill <https://doi.org/10.1109/IJCNN.2018.8489551> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Safeguarding a formalized blockchain-enabled identity-authentication protocol by applying security risk-oriented patterns

Norta, Alexander; Matulevičius, Raimundas; Leiding, Benjamin Computers & Security 2019 / p. 253–269 <https://doi.org/10.1016/j.cose.2019.05.017> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A scalable key and trust management solution for IoT sensors using SDN and blockchain technology

Hameed, Sufian; Shah, Syed Attique; Saeed, Qazi Sarmad; Siddiqui, Shahbaz; Ali, Ihsan; **Vedešin, Anton; Draheim, Dirk** IEEE sensors journal 2021 / p. 8716-8733 <https://doi.org/10.1109/JSEN.2021.3052009> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Secure and efficient implementation of electronic money

Buldas, Ahto; Draheim, Dirk; Saarepera, Märt Future Data and Security Engineering : Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 9th International Conference, FDSE 2022, Ho Chi Minh City, Vietnam, November 23-25, 2022 : proceedings 2022 / p. 34-51 https://doi.org/10.1007/978-981-19-8069-5_3 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Security issues and application of blockchain

Saxena, Sandeep; Gupta, Umesh Kumar; Renu; **Dwivedi, Vimal Kumar** Machine learning, advances in computing, renewable energy and communication : proceedings of MARC 2020 2022 / p. 533-541 https://doi.org/10.1007/978-981-16-2354-7_47 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Self-aware agent-supported contract management on blockchains for legal accountability [Online resource]

Norta, Alexander; Vedešin, Anton; Rand, Hando; **Tobies, Simon; Rull, Addi; Poola, Margus**; Rull, Teddi 2017 https://docs.agrello.org/Agrello-Self-Aware_Whitepaper-English.pdf

A self-aware contract for decentralized peer-to-peer (P2P) commerce

Dixit, Abhishek; Norta, Alexander 2018 IEEE 3rd International Workshops on Foundations and Applications of Self* Systems : (FAS*W), 3–7 September, 2018 Trento, Italy : proceedings 2018 / p. 17-19 <http://doi.org/10.1109/FAS-W.2018.00018>

Self-aware smart contracts with legal relevance

Norta, Alexander 2018 International Joint Conference on Neural Networks (IJCNN) : 2018 proceedings 2018 / p. 4113-4120 : ill <https://doi.org/10.1109/IJCNN.2018.8489235> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Smart contract formation enabling energy-as-a-service in a virtual power plant

Mishra, Sambeet; Crasta, Cletus J.; Bordin, Chiara; Mateo IFornés, Jordi International journal of energy research 2022 / p. 3272-3294 <https://doi.org/10.1002/er.7381> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Smart contracts for entrepreneurial collaboration in logistics networks

Philipp, Robert; Gerlitz, Laima; **Prause, Gunnar Klaus** New Challenges of Economic and Business Development - 2019 : Incentives for Sustainable Economic Growth : proceedings 2019 / p. 652–663 : ill https://www.bvef.lu.lv/fileadmin/user_upload/LU.LV/Apaksvietnes/Fakultates/www.bvef.lu.lv/Konferences/2019/Proceeding_of_Reports_2019.pdf

Smart contracts for smart rural supply chains

Prause, Gunnar Klaus; Boevsky, Ivan Bulgarian Journal of Agricultural Science 2019 / p. 454-463 : ill <https://www.agrojournal.org/25/03-04.html> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics WOS](#) [Article at WOS](#)

A smart-contract-based adaptive security governance architecture for smart city service interoperations

Siddiqui, Shahbaz; Hameed, Sufian; Shah, Syed Attique; Arshad, Junaid; Ahmed, Yussuf; **Draheim, Dirk** Sustainable Cities and Society 2024 / art. 105717 <https://doi.org/10.1016/j.scs.2024.105717> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Sustainable machine-to-everything infrastructure management: blockchain-based impact indexing for distributed collaboration systems

Chornoal, Olena; Norta, Alexander Proceedings of the IEEE/IFIP Network Operations and Management Symposium 2022: Network and Service Management in the Era of Cloudification, Softwarization and Artificial Intelligence, NOMS 2022 2022 / Code 179994 <https://doi.org/10.1109/NOMS54207.2022.9789760>

The state of the art for blockchain-enabled smart-contract applications in the organization

Udokwu, Chibuzor; Kormiltsõn, Aleksandr; Thangalimodzi, Kondwani; Norta, Alexander 2018 Ivannikov Isp Ras Open Conference Dedicated to the 70th Anniversary of Computer Science in Russia : ISPRAS 2018: 22–23 November, 2018 Moscow, Russia Federation 2018 / p. 137-141 <http://doi.org/10.1109/ISPRAS.2018.00029>

A theory of secure and efficient implementation of electronic money

Buldas, Ahto; Draheim, Dirk; Saarepera, Märt SN Computer Science 2023 / art. 861, 25 p. : ill <https://doi.org/10.1007/s42979-023-02232-y> [Journal metrics at Scopus](#) [Article at Scopus](#)

A token economy governance model

Kivilo, Samela; Norta, Alexander; Hattingh, Marie Harnessing AI, Machine Learning, and IoT for Intelligent Business ; Vol. 2 2024 / p. 395 - 405 https://doi.org/10.1007/978-3-031-66218-8_30 [Article collection metrics at Scopus](#) [Article at Scopus](#)

Toward software-defined networking-based IoT frameworks : a systematic literature review, taxonomy, open challenges and prospects

Siddiqui, Shahbaz; Hameed, Sufian; Shah, Syed Attique; Aneiba, Adel; **Draheim, Dirk;** Dustdar, Schahram IEEE Access 2022 / p. 70850-70901 <https://doi.org/10.1109/ACCESS.2022.3188311> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards a foundation of Web3

Buldas, Ahto; Draheim, Dirk; Gault, Mike; Saarepera, Märt Future Data and Security Engineering : Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 9th International Conference, FDSE 2022, Ho Chi Minh City, Vietnam, November 23-25, 2022 : proceedings 2022 / p. 3-18 https://doi.org/10.1007/978-981-19-8069-5_1 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Towards SDN-based smart contract solution for IoT access control

Khalid, Mizna; Hameed, Sufian; Qadir, Abdul; Shah, Syed Attique; **Draheim, Dirk** Computer communications 2023 / p. 1-31 <https://doi.org/10.1016/j.comcom.2022.11.007> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

An ultra-scalable blockchain platform for universal asset tokenization : design and implementation

Buldas, Ahto; Draheim, Dirk; Gault, Mike; Laanoja, Risto; Nagumo, Takehiko; Saarepera, Märt; Shah, Syed Attique; Simm, Joosep; Steiner, Jamie; **Tammet, Tanel;** Truu, Ahto IEEE Access 2022 / p. 77284-77322 : ill <https://doi.org/10.1109/ACCESS.2022.3192837> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Using blockchain for optimal and transparent resource allocation : a proposed solution for fund allocation : brief overview

Voicu-Dorobantu, Roxana; **Udokwu, Chibuzor;** Bocse, Bogdan ICEEG '21: Proceedings of the 5th International Conference on E-Commerce, E-Business and E-Government 2021 / p. 35-38 <https://doi.org/10.1145/3466029.3466056> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)