

Analyzing eID public acceptance and user preferences for current authentication options in Estonia

Tsap, Valentyna; Lips, Silvia; Draheim, Dirk Electronic Government and the Information Systems Perspective : 9th International Conference, EGOVIS 2020, Bratislava, Slovakia, September 14-17, 2020 : proceedings 2020 / p. 159-173 https://doi.org/10.1007/978-3-030-58957-8_12 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Aspects of personal data protection from state and citizen perspectives - case of Georgia

Tsulukidze, Mariam; Nyman-Metcalf, Katrin Merike; Tsap, Valentyna; Pappel, Ingrid; Draheim, Dirk Digital Transformation for a Sustainable Society in the 21st Century 18th IFIP WG 6.11 : Conference on e-Business, e-Services, and e-Society, I3E 2019 Trondheim, Norway, September 18–20, 2019 : proceedings 2019 / p. 476-488 https://doi.org/10.1007/978-3-030-29374-1_39 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Assessing opportunities and barriers to improving the secondary use of health care data at the national level : multicase study in the Kingdom of Saudi Arabia and Estonia

Metsallik, Janek; Draheim, Dirk; Sabic, Zlatan; Novak, Thomas; Ross, Peeter Journal of Medical Internet Research 2024 / art. e53369 <https://doi.org/10.2196/53369> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Assessment of the eID ecosystem as a part of the state's critical infrastructure : the case of Estonia

Bejussova, Karolina; Lips, Silvia; Ahmed, Rozha Kamal; Draheim, Dirk Electronic Government and the Information Systems Perspective : 13th International Conference, EGOVIS 2024, Naples, Italy, August 26–28, 2024, Proceedings 2024 / p. 88 - 102 https://doi.org/10.1007/978-3-031-68211-7_8 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Barriers to digital transformation of the silver economy : challenges to adopting digital skills by the silver generation

Butt, Sidra Azmat; Lips, Silvia; Sharma, Rahul; Pappel, Ingrid; Draheim, Dirk Human factors, business management and society : proceedings of the 14th AHFE International Conference on Applied Human Factors and Ergonomics : San Francisco Marriott Marquis, California, USA, July 20-24, 2023. Vol. 97 2023 / p. 151–163 : tab <https://doi.org/10.54941/ahfe1003892>

Big data analytics in association rule mining : a systematic literature review

Shahin, Mahtab; Arakkal Peious, Sijo; Sharma, Rahul; Kaushik, Minakshi; Ben Yahia, Sadok; Shah, Syed Attique; Draheim, Dirk BDET 2021: 2021 the 3rd International Conference on Big Data Engineering and Technology (BDET) : proceedings 2021 / p. 40-49 <https://doi.org/10.1145/3474944.3474951> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Blockchain technology for enabling transparent and traceable government collaboration in public project processes of developing economies

Abodei, Ebizimoh; Norta, Alexander; Azogu, Irene; Udokwu, Chibuzor; Draheim, Dirk Digital Transformation for a Sustainable Society in the 21st Century 18th IFIP WG 6.11 : Conference on e-Business, e-Services, and e-Society, I3E 2019 Trondheim, Norway, September 18–20, 2019 : proceedings 2019 / p. 464–475 https://doi.org/10.1007/978-3-030-29374-1_38 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Blockchain technology: Intrinsic technological and socio-economic barriers: FDSE'2020 Keynote

Buldass, Ahto; Draheim, Dirk; Nagumo, Takehiko; Vedešin, Anton Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 7th International Conference, FDSE 2020, Quy Nhon, Vietnam, November 25–27, 2020 : proceedings 2020 / p. 3-27 https://doi.org/10.1007/978-3-030-63924-2_1 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Blockchains from an e-governance perspective: Potential and challenges - keynote at EGOSE 2020 : (Abstract of Keynote)

Draheim, Dirk Electronic Governance and Open Society: Challenges in Eurasia : 7th International Conference, EGOSE 2020, St. Petersburg, Russia, November 18-19, 2020 : proceedings 2020 / p. xi–xiii <https://link.springer.com/book/10.1007%2F978-3-030-67238-6>

Building global societies on collective intelligence : challenges and opportunities

Suran, Shweta; Pattanaik, Vishwajeet; Kurvers, Ralf; Hallin, Carina Antonia; De Liddo, Anna; Krimmer, Robert Johannes; Draheim, Dirk Digital government : research and practice 2022 / art. 31, p. 1-6 <https://doi.org/10.1145/3568169> [Journal metrics at Scopus](#) [Article at Scopus](#)

Challenges in the digital transformation of courts : a case study from the Kurdistan region of Iraq

Ahmed, Rozha Kamal; Draheim, Dirk; Pappel, Ingrid; Muhammed, Khder H. 2020 Seventh International Conference on eDemocracy & eGovernment (ICEDEG), Buenos Aires, Argentina, April 22–24, 2020 : proceedings 2020 / p. 74-79 <https://doi.org/10.1109/ICEDEG48599.2020.9096801>

Cluster-based association rule mining for an intersection accident dataset

Shahin, Mahtab; Saeidi, Soheila; Shah, Syed Attique; Kaushik, Minakshi; Sharma, Rahul; Arakkal Peious, Sijo; Draheim, Dirk 2021 International Conference on Computing, Electronic and Electrical Engineering (ICE Cube), 26-27 November 2021 : proceedings 2021 / 6 p <https://doi.org/10.1109/ICECube53880.2021.9628206>

Collective intelligence systems from an organizational perspective

Draheim, Dirk iiWAS2019 : The 21st International Conference on Information Integration and Web-based Applications & Services :

CommunityCare : tackling mental health issues with the help of community

Suran, Shweta; Pattanaik, Vishwajeet; Draheim, Dirk iiWAS2020 : The 22st International Conference on Information Integration and Web-based Applications & Services, November 30 - December 2, 2020, Chiang Mai, Thailand : [Proceedings] 2020 / art. 3429114, p. 377-382 <https://doi.org/10.1145/3428757.3429114> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Confidences for commonsense reasoning.

Tammet, Tanel; Draheim, Dirk; Järv, Priit Automated Deduction - CADE 28 : 28th International Conference on Automated Deduction, Virtual Event, July 12-15, 2021 : proceedings 2021 / p. 507–524 https://doi.org/10.1007/978-3-030-79876-5_29 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Cross-border data exchange in the Nordic-Baltic region : data intermediaries, interoperability, and e-services orchestration = Piiriülene andmevahetus Põhja-Balti regioonis : andmevahendajad, koostalitlusvõime ja e-teenuste orkestreerimine

Jackson, Eric Blake 2024 https://www.ester.ee/record=b5704325*est <https://doi.org/10.23658/taltech.54/2024>
<https://digikogu.taltech.ee/et/Item/4c85549d-2e2a-4fff-bf11-08ce2295e945>

Data exchange for digital government: Where are we heading? ADBIS2021 Keynote

Draheim, Dirk Advances in Databases and Information Systems : 25th European Conference, ADBIS 2021, Tartu, Estonia, August 24–26, 2021 : proceedings 2021 / p. 7-12 https://doi.org/10.1007/978-3-030-82472-3_2 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

DatApollo : Orchestration of serverless functions for scalable data mining

Shahin, Mahtab; Bertl, Markus; Janatian, Nasim; Aznar-Poveda, Juan; Shah, Syed Attique; Fahringer, Thomas; Arakkal Peious, Sijo; Draheim, Dirk IEEE Access 2025 / p. 142813-142828 <https://doi.org/10.1109/ACCESS.2025.3591712>

Design of a Collective Intelligence Platform for facilitating the silver economy : an exhaustive user-centered evaluation

Butt, Sidra Azmat; Suran, Shweta; Pappel, Ingrid; Weck, Marina; Draheim, Dirk techrxiv.org 2023 / 36 p. : ill <https://doi.org/10.36227/techrxiv.24213168.v1>

The design of the Estonian governmental document exchange classification framework

Draheim, Dirk; Koosapoeg, Kaarel; Lauk, Mihkel; Pappel, Ingrid; Pappel, Ingmar; Tepandi, Jaak Electronic Government and the Information Systems Perspective : 5th International Conference, EGOVIS 2016, Porto, Portugal, September 5-8, 2016 : proceedings 2016 / p. 33-47 : ill http://link.springer.com/chapter/10.1007/978-3-319-44159-7_3 http://www.ester.ee/record=b4645628*est
https://doi.org/10.1007/978-3-319-44159-7_3 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Designing a crisis management mobile application solution in Nigeria

Lips, Silvia; Amola, Oladele; Draheim, Dirk The 23rd International Conference on Information Integration and Web Intelligence, Linz, Austria, November 29 - December 01 2021 : virtual 2021 / p. 571–579 <https://doi.org/10.1145/3487664.3487807> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Designing a digital collaborative platform for the silver economy: inception and conceptualization

Butt, Sidra Azmat; Rava, Karin; Kangilaski, Taivo; Pappel, Ingrid; Draheim, Dirk 2021 Eighth International Conference on eDemocracy and eGovernment (ICEDEG) : Quito, Ecuador, 28-30 July 2021 2021 / p. 47-54 : ill <https://doi.org/10.1109/ICEDEG52154.2021.9530937>

Designing an effective long-term identity management strategy for a mature e-state

Lips, Silvia; Aas, Krista; Pappel, Ingrid; Draheim, Dirk Electronic Government and the Information Systems Perspective : 8th International Conference, EGOVIS 2019 : Linz, Austria, August 26–29, 2019 : proceedings 2019 / p. 221-234 : ill https://doi.org/10.1007/978-3-030-27523-5_16 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Designing effective Chatbot solutions for the public sector: A case study from Ukraine

Petriv, Yulia; Erlenheim, Regina; Tsap, Valentyna; Pappel, Ingrid; Draheim, Dirk Electronic Governance and Open Society: Challenges in Eurasia : 6th International Conference, EGOS 2019, St.Petersburg, Russia, November 13-14, 2019 : Proceedings 2020 / p. 320-335 https://doi.org/10.1007/978-3-030-39296-3_24 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Designing proactive business event services : a case study of the Estonian company registration portal

Körge, Helena; Erlenheim, Regina; Draheim, Dirk Electronic Participation : 11th IFIP WG 8.5 International Conference, ePart 2019, San Benedetto Del Tronto, Italy, September 2–4, 2019, Proceedings 2019 / p. 73 - 84 https://doi.org/10.1007/978-3-030-27397-2_7 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Detecting Simpson's paradox : a machine learning perspective

Sharma, Rahul; Garayev, Huseyn; Kaushik, Minakshi; Arakkal Peious, Sijo; Tiwari, Prauag; Draheim, Dirk Database and Expert Systems Applications : 33rd International Conference, DEXA 2022, Vienna, Austria, August 22-24, 2022 : proceedings. Part I 2022 /

p. 323-335 : ill https://doi.org/10.1007/978-3-031-12423-5_25 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Detecting Simpson's paradox : a step towards fairness in machine learning

Sharma, Rahul; Kaushik, Minakshi; Arakkal Peious, Sijo; Bertl, Markus; Ankit, Vidyarthi; Ashwani, Kumar; **Draheim, Dirk** New Trends in Database and Information Systems : ADBIS 2022 Short Papers, Doctoral Consortium and Workshops : DOING, K-GALS, MADEISD, MegaData, SWODCH, Turin, Italy, September 5-8, 2022 : proceedings 2022 / p. 67-76 : ill https://doi.org/10.1007/978-3-031-15743-1_7 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A digital collaborative platform for the silver economy : functionalities required by stakeholders in a multinational Baltic Sea Region project

Butt, Sidra Azmat; Suran, Shweta; Pappel, Ingrid; Smaerup, Michael; Krimmer, Robert Johannes; **Draheim, Dirk** Digital government : research and practice 2023 / art. 8, 20 p. : ill <https://doi.org/10.1145/3592618> [Journal metrics at Scopus](#) [Article at Scopus](#)

A Digital collaborative platform to facilitate innovative solutions for the silver economy = Digitaalne koostööplatvorm hõlbustamaks uuenduslikke lahendusi hõbemajanduses

Butt, Sidra Azmat 2023 <https://doi.org/10.23658/taltech.67/2023> <https://digikogu.taltech.ee/et/Item/7c85940a-5f26-4d3d-adcd-42051df370b5> https://www.ester.ee/record=b5646360*est

A Digital ecosystem for personal manufacturing : an architecture for cloud-based distributed manufacturing operating systems

Vedešin, Anton; Dogru, John Mehmet Ulgar; **Liiv, Innar; Draheim, Dirk; Ben Yahia, Sadok** MEDES '19 : A Digital Ecosystem for Personal Manufacturing : An Architecture for Cloud-based Distributed Manufacturing Operating Systems : proceedings 2019 / p. 224-228 : ill <https://doi.org/10.1145/3297662.3365792>

Digital public service improvement in cross-border use cases

Raamat, Helen; **Liiv, Innar; Lips, Silvia; Ahmed, Rozha Kamal; Sharma, Rahul; Draheim, Dirk** 37th Bled eConference – Resilience Through Digital Innovation: Enabling the Twin Transition: June 9 – 12, 2024, Bled, Slovenia, Conference Proceedings 2024 / p. 269-282 : ill <https://doi.org/10.18690/um.fov.4.2024.15>

Digital Silver Hub : user dialogue model technical document

Butt, Sidra Azmat; Pappel, Ingrid; Draheim, Dirk techrxiv.org 2022 / p. 1-59 : ill <https://doi.org/10.36227/techrxiv.19875031.v1>

Digital sovereignty and participation in an autocratic state : designing an e-petition system for developing countries

Lips, Silvia; Ahmed, Rozha Kamal; Zulfargazada, Khayyam; Krimmer, Robert Johannes; Draheim, Dirk The Proceedings of the 22nd Annual International Conference on Digital Government Research (DGO2021) : Digital Innovations for Public Values: Inclusive Collaboration and Community, June 9-11, 2021 2021 / p. 123-131 <https://doi.org/10.1145/3463677.3463706> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Digital transformation of court processes : driving forces, success factors, regulations and technology acceptance = Kohtuprotsesside digitaalne ümberkujundamine : liikumapanevad jõud, edu tegurid, regulatsioonid ja tehnoloogia vastuvõtmine

Ahmed, Rozha Kamal 2023 <https://doi.org/10.23658/taltech.7/2023> <https://digikogu.taltech.ee/et/Item/20e4a2fa-fc2d-4312-8d1e-c66afae70f96> https://www.ester.ee/record=b5547659*est

Dirk Draheim: Eesti võib saada tuleviku infoühiskonnas teenäitajaks [Võrguväljaanne]

Draheim, Dirk postimees.ee 2022 ["Dirk Draheim: Eesti võib saada tuleviku infoühiskonnas teenäitajaks"](https://postimees.ee/2022/06/01/dirk-draheim-eesti-voib-saada-tuleviku-info-uhiskonnas-teenaitajaks/)

Discretizing numerical attributes : an analysis of human perceptions

Kaushik, Minakshi; Sharma, Rahul; Draheim, Dirk arXiv.org 2023 / 18 p. : ill <https://doi.org/10.48550/arXiv.2311.03278>

Discretizing numerical attributes : an analysis of human perceptions : [conference paper]

Kaushik, Minakshi; Sharma, Rahul; Vidyarthi, Ankit; Draheim, Dirk New Trends in Database and Information Systems : ADBIS 2022 Short Papers, Doctoral Consortium and Workshops : DOING, K-GALS, MADEISD, MegaData, SWODCH, Turin, Italy, September 5-8, 2022 : proceedings 2022 / p. 188-197 https://doi.org/10.1007/978-3-031-15743-1_18 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Discussing the foundations for interpretivist digital government research

McBride, Keegan David Braun; Misnikov, Yuri; **Draheim, Dirk** Scientific foundations of digital governance and transformation : Concepts, approaches and challenges 2022 / p. 121-147 https://doi.org/10.1007/978-3-030-92945-9_6

Distributed scalable association rule mining over Covid-19 data

Shahin, Mahtab; Inoubli, Wissem; Shah, Syed Attique; **Ben Yahia, Sadok; Draheim, Dirk** Future Data and Security Engineering : 8th International Conference, FDSE 2021, Virtual Event, November 24-26, 2021 : proceedings 2021 / p. 39-52 https://doi.org/10.1007/978-3-030-91387-8_3 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Driving forces and design of the TTÜ e-Governance technologies and services master's program

Pappel, Ingrid; Oolu, Karin; Pappel, Ingmar; **Draheim, Dirk** Electronic Government and the Information Systems Perspective : 6th International Conference, EGOVIS 2017, Lyon, France, August 28-31, 2017 : proceedings 2017 / p. 278-293 : ill
https://doi.org/10.1007/978-3-319-64248-2_20 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

E-court system evaluation through the user's perspective : applying the end-user computing satisfaction (EUCS) model

Ahmed, Rozha Kamal; Ahmed, Omer; Pappel, Ingrid; **Draheim, Dirk** 23rd Annual International Conference on Digital Government Research (DGO2022) : Intelligent Technologies, Governments and Citizens, June 15-17, 2022 : proceedings 2022 / p. 293-299
<https://doi.org/10.1145/3543434.3543560> [Conference proceedings at Scopus](#) [Article at Scopus](#)

E-court transition process : identifying critical factors and recommendations for developing countries

Adeleye, Jesujoba Tolulope; **Ahmed, Rozha Kamal;** Nyman-Metcalf, Katrin Merike; **Draheim, Dirk** Electronic Governance and Open Society: Challenges in Eurasia : 8th International Conference, EGOSE 2021, Saint Petersburg, Russia, November 24-25, 2021 : proceedings 2022 / p. 305-317 https://doi.org/10.1007/978-3-031-04238-6_23 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Eesti võib saada tuleviku infoühiskonnas teenäitajaks

Draheim, Dirk Postimees 2022 / Lk. 12 <https://dea.digar.ee/article/postimees/2022/01/19/11.4>

Efficient and effective association rule mining on big data and cloud technology : a multifaceted analysis = Tõhus ja efektiivne assotsiatsioonireeglite kaevandamine suurandmetel ja pilvetehnoloogial : mitmekülgne analüüs

Shahin, Mahtab 2024 https://www.ester.ee/record=b5701564*est <https://digikogu.taltech.ee/et/Item/5cb16841-6d26-495f-88bb-5ae980bcd258>
<https://doi.org/10.23658/taltech.50/2024>

eID public acceptance : success factors, citizen perception, and impact of electronic identity = eID avalik aktsepteerimine : edutegurid, kodanike perseptsioon ja elektroonilise identiteedi mõju

Tsap, Valentyna 2022 <https://doi.org/10.23658/taltech.12/2022> <https://digikogu.taltech.ee/et/Item/13217274-6ec5-4c3b-8324-dcf5bef99081>
https://www.ester.ee/record=b5497155*est

eID public acceptance in Estonia : towards understanding the citizen

Tsap, Valentyna; Lips, Silvia; Draheim, Dirk The Proceedings of the 21st Annual International Conference on Digital Government Research (DGO2020), Intelligent Government in the Intelligent Information Society : June 15-19, 2020, Seoul, Republic of Korea 2020 / p. 340-341 <https://doi.org/10.1145/3396956.3397009> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

eIDAS implementation challenges : the case of Estonia and the Netherlands

Lips, Silvia; Bharosa, Nitesh; **Draheim, Dirk** Electronic Governance and Open Society: Challenges in Eurasia : 7th International Conference, EGOSE 2020, St. Petersburg, Russia, November 18-19, 2020 : proceedings 2020 / p. 75-89 https://doi.org/10.1007/978-3-030-67238-6_6 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Enabling sensemaking and trust in communities : an organizational perspective

Arakkal Peious, Sijo; Suran, Shweta; Pattanaik, Vishwajeet; Draheim, Dirk iiWAS2021: The 23rd International Conference on Information Integration and Web Intelligence : November 29-December 1, 2021, Linz, Austria : proceedings 2021 / p. 95-103 : ill
<https://doi.org/10.1145/3487664.3487678> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Enabling social information exchange via dynamically robust annotations

Pattanaik, Vishwajeet; Suran, Shweta; Draheim, Dirk iiWAS2019 : Proceedings of the 21st International Conference on Information Integration and Web-based Applications & Services : December 2-4, 2019, Munich, Germany 2019 / p. 176-184 : ill
<https://doi.org/10.1145/3366030.3366060> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Enhancing public e-service delivery : recognizing and meeting user needs of youngsters in Estonia

Ruus, Marili; **Pappel, Ingrid; Tsap, Valentyna; Draheim, Dirk** Digital Transformation and Global Society : 4th International Conference, DTGS 2019, St. Petersburg, Russia, June 19-21, 2019 : Revised Selected Papers 2019 / p. 29-40
https://doi.org/10.1007/978-3-030-37858-5_3 [Conference proceedings at Scopus](#) [Article at Scopus](#)

E-Residency as a nation branding case

Kimmo, Margarita; Pappel, Ingrid; Draheim, Dirk 11th International Conference on Theory and Practice of Electronic Governance, 4 - 6 April 2018 2018 / p. 419-428 <https://doi.org/10.1145/3209415.3209447> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

eSignature in eCourt Systems

Ahmed, Rozha Kamal; Lips, Silvia; Draheim, Dirk Proceedings of the World Conference on Smart Trends in Systems, Security and Sustainability (WS4 2020), London, UK, July 27 - 28, 2020 : Virtual Conference 2020 / p. 352-356
<https://doi.org/10.1109/WorldS450073.2020.9210309>

Ethical challenges of ICT for the silver economy

Butt, Sidra Azmat; Draheim, Dirk 2021 Eighth International Conference on eDemocracy and eGovernment (ICEDEG) : Quito, Ecuador, 28-30 July 2021 2021 / p. 152-155 : ill <https://doi.org/10.1109/ICEDEG52154.2021.9530895>

Evaluation of data quality in the Estonian National Health Information System for digital decision support

Bertl, Markus; Kankainen, Kristian Juha Ismo; Piho, Gunnar; Draheim, Dirk; Ross, Peeter 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. Vol. 3440 2023 / paper 1, 13 p. : ill <https://ceur-ws.org/Vol-3440/paper1.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Evaluation of deep learning-based depression detection using medical claims data

Bertl, Markus; Bignoumba, Nzamba; Ross, Peeter; Ben Yahia, Sadok; Draheim, Dirk Artificial intelligence in medicine 2024 / art. 102745, 16 p. : ill <https://doi.org/10.1016/j.artmed.2023.102745> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of deep learning-based depression detection using medical claims data : preprint

Bertl, Markus; Bignoumba, Nzamba; Ross, Peeter; Ben Yahia, Sadok; Draheim, Dirk SSRN 2023 / p. 1-34 : ill <https://doi.org/10.2139/ssrn.4478987>

An exhaustive multi-aspect analysis of swarm intelligence algorithms in numerical association rule mining

Kaushik, Minakshi; Sharma, Rahul; Koiva, Pilleriin; Fister, Iztok; Draheim, Dirk IEEE Access 2024 / p. 138985 - 139002 <https://doi.org/10.1109/ACCESS.2024.3417334> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Existence of the Yule-Simpson effect : an experiment with continuous data

Sharma, Rahul; Kaushik, Minakshi; Arakkal Peious, Sijo; Shahin, Mahtab; Vidyarthi, Ankit; Draheim, Dirk Proceedings of the Confluence 2022 : 12th International Conference on Cloud Computing, Data Science & Engineering, 27-28 January 2022 : Virtual 2022 / p. 351-355 <https://doi.org/10.1109/Confluence52989.2022.9734211>

Expected vs. unexpected : selecting right measures of interestingness

Sharma, Rahul; Kaushik, Minakshi; Arakkal Peious, Sijo; Ben Yahia, Sadok; Draheim, Dirk Big Data Analytics and Knowledge Discovery : 22nd International Conference, DaWaK 2020, Bratislava, Slovakia, September 14–17, 2020 : proceedings 2020 / p. 38-47 https://doi.org/10.1007/978-3-030-59065-9_4 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

An experimental pipeline for automated reasoning in natural language (short paper)

Tammet, Tanel; Järv, Priit; Verrev, Martin; Draheim, Dirk Automated Deduction – CADE 29, 29th International Conference on Automated Deduction, Rome, Italy, July 1–4, 2023 : proceedings 2023 / p. 509-521 https://doi.org/10.1007/978-3-031-38499-8_29 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Experiments with LLMs for converting language to logic

Tammet, Tanel; Järv, Priit; Verrev, Martin; Draheim, Dirk Neural-Symbolic Learning and Reasoning : 18th International Conference, NeSy 2024, Barcelona, Spain, September 9–12, 2024, Proceedings, Part II 2024 / p. 305 - 314 https://doi.org/10.1007/978-3-031-71170-1_24 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Exploratory analysis of collective intelligence projects developed within the EU-Horizon 2020 framework

Suran, Shweta; Pattanaik, Vishwajeet; Ben Yahia, Sadok; Draheim, Dirk Computational Collective Intelligence 11th International Conference, ICCCI 2019, Hendaye, France, September 4–6, 2019, Proceedings, Part II 2019 / p. 285-296 https://doi.org/10.1007/978-3-030-28374-2_25 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Exploring e-services development in local government authorities by means of electronic document management systems

Pappel, Ingrid; Tsap, Valentyna; Pappel, Ingmar; Draheim, Dirk Electronic Governance and Open Society : Challenges in Eurasia 5th International Conference, EGOSE 2018, St. Petersburg, Russia, November 14–16, 2018 : Revised Selected Papers 2019 / p. 223-234 . ill https://doi.org/10.1007/978-3-030-13283-5_17 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Exploring factors in a crossroad dataset using cluster-based association rule mining

Shahin, Mahtab; Heidari Iman, Mohammad Reza; Kaushik, Minakshi; Sharma, Rahul; Ghasempouri, Tara; Draheim, Dirk Procedia computer science 2022 / p. 231-238 : ill <https://doi.org/10.1016/j.procs.2022.03.032> [Conference proceeding at Scopus](#) [Article at Scopus](#)

Exploring the functionalities and evaluation of the Digital Silver Hub : a collaborative platform for innovative solutions in the silver economy

Butt, Sidra Azmat; Pappel, Ingrid; Draheim, Dirk ICEGOV '23 : proceedings of the 16th International Conference on Theory and Practice of Electronic Governance : September 26–29, 2023, Belo Horizonte, Brazil 2023 / p. 371–378 : ill <https://doi.org/10.1145/3614321.3614371>

Factors affecting e-ID public acceptance : a literature review

Tsap, Valentyna; Pappel, Ingrid; Draheim, Dirk Electronic Government and the Information Systems Perspective : 8th International Conference, EGOVIS 2019 : Linz, Austria, August 26–29, 2019 : proceedings 2019 / p. 176-188 : tab https://doi.org/10.1007/978-3-030-27523-5_13 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

Finding indicator diseases of psychiatric disorders in BigData using Clustered Association rule mining

Bertl, Markus; Shahin, Mahtab; Ross, Peeter; Draheim, Dirk SAC '23: proceedings of the 38th ACM/SIGAPP Symposium on Applied Computing : Tallinn Estonia, March 27-31, 2023 2023 / art. 4, p. 826-833 : tab <https://doi.org/10.1145/3555776.3577594>

First order logic and commonsense reasoning : a path less travelled

Tammet, Tanel; Draheim, Dirk; Järv, Priit; Verrev, Martin ICLP Workshops 2022 : Proceedings of the International Conference on Logic Programming 2022 Workshops, co-located with the 38th International Conference on Logic Programming, ICLP 2022 2022 / art. 182197 <https://ceur-ws.org/Vol-3193/short5GDE.pdf> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Foundational MDA patterns for service-oriented computing

Atkinson, Colin; Bostan, Philipp; **Draheim, Dirk** Journal of object technology 2015 / p. 1-30 : ill <http://dx.doi.org/10.5381/jot.2015.14.1.a1>

Framework for peer-to-peer data sharing over Web browsers

Pattanaik, Vishwajeet; Sharvadze, Ioane; **Draheim, Dirk** Future Data and Security Engineering : 6th International Conference, FDSE 2019 Nha Trang City, Vietnam, November 27–29, 2019 : proceedings 2019 / p. 207-225 : ill https://doi.org/10.1007/978-3-030-35653-8_14 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Conference proceeding at WOS](#) [Article at WOS](#)

A Framework for the adoption of blockchain technology in healthcare information management systems : a case study of Nigeria

Azogu, Irene; **Norta, Alexander; Pappel, Ingrid**; Longo, Justin; **Draheim, Dirk** Proceedings of the 12th International Conference on Theory and Practice of Electronic Governance (ICEGOV'19), Melbourne, Australia, April 3-5, 2019 2019 / p. 310–316 : ill <https://doi.org/10.1145/3326365.3326405> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

A framework for the adoption of blockchain-based e-procurement systems in the public sector : A case study of Nigeria

Akaba, Temofe Isaac; Norta, Alexander; Udokwu, Chibuzor; Draheim, Dirk Responsible Design, Implementation and Use of Information and Communication Technology : 19th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society, I3E 2020, Skukuza, South Africa, April 6–8, 2020 : Proceedings, Part I 2020 https://doi.org/10.1007/978-3-030-44999-5_1 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Frameworks for collective intelligence : a systematic literature review

Suran, Shweta; Pattanaik, Vishwajeet; Draheim, Dirk ACM computing surveys 2020 / art. 14, p. 1–36 <https://doi.org/10.1145/3368986> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Freely combining partial knowledge in multiple dimensions (extended abstract)

Draheim, Dirk Future Data and Security Engineering : 5th International Conference, FDSE 2018, Ho Chi Minh City, Vietnam, November 28–30, 2018, Proceedings 2018 / p. 3-11 https://doi.org/10.1007/978-3-030-03192-3_1 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

From sensors to Dempster-Shafer theory and back : the axiom of ambiguous sensor correctness and its applications

Draheim, Dirk; Tammet, Tanel Database and Expert Systems Applications : 31st International Conference, DEXA 2020, Bratislava, Slovakia, September 14–17, 2020 : Proceedings, Part I 2020 / p. 3-19 https://doi.org/10.1007/978-3-030-59003-1_1 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Future opportunities for systematic AI support in healthcare

Bertl, Markus; Piho, Gunnar; Draheim, Dirk; Ross, Peeter; Pechmann, Ludwig; Bucciarelli, Nicholas; **Sharma, Rahul** Bridging the Gap Between AI and Reality : First International Conference, AISoLA 2023, Crete, Greece, October 23–28, 2023, Selected Papers 2024 / p. 203 - 224 https://doi.org/10.1007/978-3-031-73741-1_13 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Generalized association rule mining – dimensional unsupervised learning = Üldistatud assotsiatsioonireeglite kaevandamine – dimensiooniline juhendamata õpe

Kaushik, Minakshi 2024 https://www.ester.ee/record=b5652676*est <https://digikogu.taltech.ee/et/Item/b3fc493d-b245-43e2-bd37-87d749cca028> <https://doi.org/10.23658/taltech.6/2024>

Generalized Jeffrey conditionalization : a frequentist semantics of partial conditionalization

Draheim, Dirk 2017 <https://doi.org/10.1007/978-3-319-69868-7>

A generic framework for collective intelligence systems = Kollektiivse intelligentsuse süsteemide üldine raamistik

Suran, Shweta 2022 <https://doi.org/10.23658/taltech.15/2022> <https://digikogu.taltech.ee/et/Item/3e5b1767-badd-4d53-ac11-8e61cc7f8e09> https://www.ester.ee/record=b5498851*est

GK : Implementing full first order default logic for commonsense reasoning (system description)

Tammet, Tanel; Draheim, Dirk; Järv, Priit Automated Reasoning : 11th International Joint Conference, IJCAR 2022, Haifa, Israel, August 8–10, 2022 : proceedings 2022 / p. 300-309 https://doi.org/10.1007/978-3-031-10769-6_18 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Guest editorial: Smart cities 2.0 : how artificial intelligence and internet of things are transforming urban living

Chai, Zheng-Yi; Shah, Syed Attique; **Draheim, Dirk**; Hameed, Sufian; Rathore, Muhammad Mazhar Ullah IET Smart Cities 2024 / p. 129-131 <https://doi.org/10.1049/smc2.12091> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

How domain engineering can help to raise adoption rates of artificial intelligence in healthcare

Bertl, Markus; Klementi, Toomas; Piho, Gunnar; Ross, Peeter; Draheim, Dirk Information Integration and Web Intelligence, 25th International Conference, iiWAS 2023, Denpasar, Bali, Indonesia, December 4–6, 2023 : proceedings 2023 / p. 490-504 https://doi.org/10.1007/978-3-031-48316-5_1 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Identifying design principles for proactive services through systematically understanding the reactivity-proactivity spectrum

Erlenheim, Regina; Draheim, Dirk; Taveter, Kuldar Proceedings of the 13th International Conference on Theory and Practice of Electronic Governance : ICEGOV 2020, 23-25 September, 2020 : Online Conference 2020 / p. 452–458 <https://doi.org/10.1145/3428502.3428572> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Impact of e-court systems implementation : a case study

Ahmed, Rozha Kamal; Muhammed, Khder Hassan; Pappel, Ingrid; Draheim, Dirk Transforming Government : People, Process and Policy 2021 / p. 108-128 : ill <https://doi.org/10.1108/TG-01-2020-0008> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The impact of the single digital gateway regulation from the citizens' perspective

Bhattarai, Rakshya; Pappel, Ingrid; Vainsalu, Heiko; Ben Yahia, Sadok; Draheim, Dirk Procedia Computer Science 2019 / p. 159 - 167 <https://doi.org/10.1016/j.procs.2019.12.168> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Impact-driven discretization of numerical factors : case of two- and three-partitioning

Kaushik, Minakshi; Sharma, Rahul; Arakkal Peious, Sijo; Draheim, Dirk Big Data Analytics. BDA 2021 : 9th International Conference, BDA 2021, Virtual Event, December 15-18, 2021 : proceedings 2021 / p. 244–260 https://doi.org/10.1007/978-3-030-93620-4_18 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Implementation of e-birth registration systems : potential and challenges the case study of Iran

Shahin, Mahtab; Eskandri, Fatemeh; Ahmed, Rozha Kamal; Draheim, Dirk ICT systems and sustainability : proceedings of ICT4SD 2021, Volume 1 2022 / p. 861-872 : ill https://doi.org/10.1007/978-981-16-5987-4_85 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Implementation of e-invoicing principles in Estonian local governments

Pappel, Ingrid; Pappel, Ingmar; Tampere, Terje; Draheim, Dirk Proceedings of the 17th European Conference on Digital Government (ECDG) : Military Academy, Lisbon, Portugal, 12-13 June 2017 2017 / p. 127-135 : ill <http://www.scopus.com/inward/record.uri?eid=2-s2.0-85028462055&partnerID=40&md5=90db5a1632aa8070dc9d7ae92357ae5f>

Implementation of information security in the EU information systems : an Estonian case study

Järvsoo, Maris; Norta, Alexander; Tsap, Valentyna; Pappel, Ingrid; Draheim, Dirk Challenges and Opportunities in the Digital Era : 17th IFIP WG 6.11 Conference on e-Business, e-Services, and e-Society : I3E 2018, Kuwait City, Kuwait, October 30 - November 1, 2018 : proceedings 2018 / p. 150-163 https://doi.org/10.1007/978-3-030-02131-3_15 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Improving court efficiency through ICT integration : identifying essential areas of improvement

Ahmed, Rozha Kamal; Muhammed, Khder H.; Reitsakas, Aleksander; Pappel, Ingrid; Draheim, Dirk ICT Analysis and Applications : proceedings of ICT4SD 2019. Vol. 2 2020 / p. 449-461 : ill https://doi.org/10.1007/978-981-15-0630-7_44 [Article collection at Scopus](#) [Article at Scopus](#)

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](#)

Key factors in coping with large-scale security vulnerabilities in the eID field

Lips, Silvia; **Pappel, Ingrid; Tsap, Valentyna; Draheim, Dirk** Electronic Government and the Information Systems Perspective : 7th International Conference, EGOVIS 2018, Regensburg, Germany, September 3–5, 2018 : proceedings 2018 / p. 60-70 https://doi.org/10.1007/978-3-319-98349-3_5 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Key success factors in introducing national e-identification systems

Tsap, Valentyna; Pappel, Ingrid; Draheim, Dirk Future Data and Security Engineering : 4th International Conference, FDSE 2017, Ho Chi Minh City, Vietnam, November 29 - December 1, 2017 : proceedings 2017 / p. 455-471 : ill https://doi.org/10.1007/978-3-319-70004-5_33 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Knowledge integration for commonsense reasoning with default logic

Järv, Priit; Tammet, Tanel; Verrev, Martin; Draheim, Dirk Proceedings of the 14th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management - KEOD 2022, October 24-26, 2022, in Valletta, Malta ; Vol. 1 / p. 148-155 <https://doi.org/10.5220/0000165700003335>

A knowledge map for ICT integration in the silver economy

Butt, Sidra Azmat; Elhadjamor, Emna A.; Pappel, Ingrid; Öunapuu, Enn; Draheim, Dirk Procedia computer science 2021 / p. 693–701 <https://doi.org/10.1016/j.procs.2021.01.220> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Large-scale commonsense knowledge for default logic reasoning

Järv, Priit; Tammet, Tanel; Verrev, Martin; Draheim, Dirk SN Computer Science 2023 / art. 550 <https://doi.org/10.1007/s42979-023-01963-2> [Journal metrics at Scopus](#) [Article at Scopus](#)

A legal framework for digital transformation

Ahmed, Rozha Kamal; Muhammed, Khder Hassan; Lips, Silvia; Nyman-Metcalf, Katrin Merike; Pappel, Ingrid; Draheim, Dirk SSRN 2022 / 20 p <https://doi.org/10.2139/ssrn.4182028>

A legal framework for digital transformation : a proposal based on a comparative case study

Ahmed, Rozha Kamal; Muhammed, Khder H.; Qadir, Awat O.; Arif, Soran I.; Lips, Silvia; Nyman-Metcalf, Katrin Merike; Pappel, Ingrid; Draheim, Dirk Electronic Government and the Information Systems Perspective : 10th International Conference, EGOVIS 2021, Virtual Event, September 27–30, 2021 : proceedings 2021 / p. 115–128 https://doi.org/10.1007/978-3-030-86611-2_9 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [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 = Arukate lepingute jaoks õiguslikult asjakohane sotsiaal-tehniline keelearendus

Dwivedi, Vimal Kumar 2022 <https://doi.org/10.23658/taltech.14/2022> <https://digikogu.taltech.ee/et/Item/f69ec767-0112-4342-9d4c-aceb37502c0b> https://www.ester.ee/record=b5497769*est

Lessons learned from a multi-national project on developing a platform for the silver economy

Butt, Sidra Azmat; Kangilaski, Taivo; Draheim, Dirk CENTERIS – International Conference on ENTERprise Information Systems / ProjMAN - International Conference on Project MANagement / HCist - International Conference on Health and Social Care Information Systems and Technologies 2023 2024 / p. 1006 - 1014 <https://doi.org/10.1016/j.procs.2024.06.264> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Machine learning assisted methodology for multiclass classification of malignant brain tumors

Vidyarthi, Ankit; Agarwal, Ruchi; Gupta, Deepak; Sharma, Rahul; Draheim, Dirk; Tiwari, Prayag IEEE Access 2022 / p. 50624-50640 <https://doi.org/10.1109/ACCESS.2022.3172303> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Making e-government work : learning from the Netherlands and Estonia

Bharosa, Nitesh; Lips, Silvia; Draheim, Dirk Electronic Participation : 12th IFIP WG 8.5 International Conference, ePart 2020, Linköping, Sweden, August 31 – September 2, 2020 : proceedings 2020 / p. 41-53 https://doi.org/10.1007/978-3-030-58141-1_4 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Management of national eID infrastructure as a state-critical asset and public-private partnership : learning from the case of Estonia

Lips, Silvia; Tsap, Valentyna; Bharosa, Nitesh; Krimmer, Robert Johannes; Tammet, Tanel; Draheim, Dirk Information Systems Frontiers 2023 / p.2439-2456 <https://doi.org/10.1007/s10796-022-10363-5> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Management of national eID infrastructure as a state-critical asset and public-private partnership : learning from the case of Estonia : [journal article]

Lips, Silvia; Tsap, Valentyna; Bharosa, Nitesh; Draheim, Dirk; Krimmer, Robert Johannes; Tammet, Tanel SSRN 2022 / 19 p. : ill <https://doi.org/10.2139/ssrn.4113998>

Measures of Impact and Confounding – An Analysis and Experimental Comparison of Novel and Established Measures = Mõju ja segajate mõõdikud – uute ja väljakujunenud meetmete analüüs ja eksperimentaalne võrdlus

Arakkal Peious, Sijo 2025 https://www.ester.ee/record=b5745850*est <https://digikogu.taltech.ee/et/Item/81726e4a-6f3a-429b-8580-ae7710da881d> <https://doi.org/10.23658/taltech.24/2025>

Meteorological Insights : Scalable Weather Pattern Mining in Tallinn and Tartu

Shahin, Mahtab; Ghasempouri, Tara; Aznar Poveda, Juan; Janatian, Nasim; Fahringer, Thomas; Attique Shah, Syed; Draheim,

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](#)

A multifaceted assessment framework for electronic identity schemes = Elektrooniliste autentimisskeemide mitmetahuline hindamise raamistik

Lips, Silvia 2023 <https://doi.org/10.23658/taltech.34/2023> <https://digikogu.taltech.ee/et/Item/52b02c4c-7d55-47f5-b942-83e03f3bb37a> https://www.ester.ee/record=b5569689*est

Multi-faceted evaluation of the Digital Silver Hub to validate its platform requirements

Butt, Sidra Azmat; Weck, Marina; Pappel, Ingrid; Draheim, Dirk Human factors, business management and society : proceedings of the 14th AHFE International Conference on Applied Human Factors and Ergonomics : San Francisco Marriott Marquis, California, USA, July 20-24, 2023. Vol. 97 2023 / p. 164–177 : ill <https://doi.org/10.54941/ahfe1003893>

Multi-level model transformation

Draheim, Dirk; Holmes, Taid; Wimmer, Manuel Multi-Level Modelling (Dagstuhl Seminar 17492) 2018 / p. 42–48 <http://dx.doi.org/10.4230/DagRep.7.12.18>

A novel framework for unification of association rule mining, online analytical processing and statistical reasoning

Sharma, Rahul; Kaushik, Minakshi; Arakkal Peious, Sijo; Bazin, Alexandre; Shah, Syed Attique; Istok, Fister jr.; Ben Yahia, Sadok; Draheim, Dirk IEEE Access 2022 / p. 12792-12813 <https://doi.org/10.1109/ACCESS.2022.3142537> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Numerical association rule mining : a systematic literature review

Kaushik, Minakshi; Sharma, Rahul; Fister, Iztok jr.; Draheim, Dirk arXiv.org 2023 / 50 p. : ill <https://doi.org/10.48550/arXiv.2307.00662>

Nüüd tenuuris : Dirk Draheim ja Jaan Kers

Draheim, Dirk; Kers, Jaan Mente et Manu 2022 / lk. 52-53 : fot https://www.ester.ee/record=b1242496*est

An analysis of human perception of partitions of numerical factor domains

Kaushik, Minakshi; Sharma, Rahul; Shahin, Mahtab; Arakkal Peious, Sijo; Draheim, Dirk Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) ; Vol. 13635 LNCS 2022 / p. 137-144 https://doi.org/10.1007/978-3-031-21047-1_13 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

On architecture of e-government ecosystems: from e-services to e-participation [iiWAS'2020 Keynote]

Draheim, Dirk iiWAS2020 : The 22st International Conference on Information Integration and Web-based Applications & Services, November 30 - December 2, 2020, Chiang Mai, Thailand : [Proceedings] 2020 / p. 3–10 <https://doi.org/10.1145/3428757.3429972> [Conference proceedings at Scopus](#) [Article at Scopus](#)

On Choosing the Columnar In-Memory Database Hyrise as High-Performant Implementation Platform for the Grandreport Tool

Arakkal Peious, Sijo; Kaushik, Minakshi; Shahin, Mahtab; Sharma, Rahul; Draheim, Dirk techrxiv.org 2025 / 7 p <http://doi.org/10.36227/techrxiv.174015861.15410981/v1>

On complex adaptive systems and electronic government - a proposed theoretical approach for electronic government studies

McBride, Keegan David Braun; Draheim, Dirk Electronic journal of e-Government 2020 / p. 43–53 <https://doi.org/10.34190/EJEG.18.1.004>

On existing trends towards creation of a holistic sociotechnical approach to e-Governance

Kosenkov, Oleksandr; Pappel, Ingrid; Draheim, Dirk Proceedings of the 12th International Conference on Theory and Practice of Electronic Governance (ICEGOV'19), Melbourne, Australia, April 3-5, 2019 2019 / p. 492–493 : ill <https://doi.org/10.1145/3326365.3326437> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

On facilitating cross-border E-commerce through an automated VAT declaration system

Kreos, Kai; Täks, Ermo; Tsap, Valentyna; Pappel, Ingrid; Draheim, Dirk 2019 6th International Conference on eDemocracy and eGovernment (ICEDEG 2019) : Quito, Ecuador, April 24–26, 2019 : conference proceeding 2019 / p. 56-63 <https://doi.org/10.1109/ICEDEG.2019.8734347>

On leveraging the potential of open data to enhance transparency and accountability - A case study from Ukraine

Popelyshyn, Olha; Tsap, Valentyna; Pappel, Ingrid; Draheim, Dirk 2019 6th International Conference on eDemocracy and eGovernment (ICEDEG 2019) : Quito, Ecuador, April 24–26, 2019 : conference proceedings 2019 / Art. 8734315 ; p. 25-30

On measuring confounding bias in mixed multidimensional data : case of coerced multiple linear regression adjustment
Arakkal Peious, Sijo; Kaushik, Minakshi; Shah, Syed Attique; Sharma, Rahul; Suran, Shweta; Draheim, Dirk ICT for Intelligent Systems : proceedings of ICTIS 2024. Vol. 6 2024 / p. 329–342 https://doi.org/10.1007/978-981-97-6684-0_27 [Conference proceedings at Scopus](#) [Article at Scopus](#)

On observing patterns of correlations during drill-down

Arakkal Peious, Sijo; Sharma, Rahul; Kaushik, Minakshi; Shahin, Mahtab; Draheim, Dirk Information Integration and Web Intelligence, 25th International Conference, iiWAS 2023, Denpasar, Bali, Indonesia, December 4–6, 2023 : proceedings 2023 / p. 134–143 : ill https://doi.org/10.1007/978-3-031-48316-5_16 [Conference proceedings at Scopus](#) [Article at Scopus](#)

On positive feedback loops in digital government architecture

McBride, Keegan David Braun; Kütt, Andres; Ben Yahia, Sadok; Draheim, Dirk MEDES '19 : A Digital Ecosystem for Personal Manufacturing : An Architecture for Cloud-based Distributed Manufacturing Operating Systems : proceedings 2019 / p. 174–180 : ill <https://doi.org/10.1145/3297662.3365817>

On state-level architecture of digital government ecosystems : from ICT-driven to data-centric

Draheim, Dirk; Krimmer, Robert Johannes; Tammet, Tanel Transactions on Large-Scale Data- and Knowledge-Centered Systems XLVIII 2021 / p. 165–195 https://doi.org/10.1007/978-3-662-63519-3_8 [Journal metrics at Scopus](#) [Article at Scopus](#)

On the narratives and background narratives of e-Government

Draheim, Dirk; McBride, Keegan David Braun; Misnikov, Yuri; Hartleb, Florian; Lauk, Mihkel; Pappel, Ingrid Proceedings of the 53rd Annual Hawaii International Conference on System Sciences : January 7–10, 2020, Grand Wailea, Maui 2020 / p. 2114–2122 <https://doi.org/10.24251/HICSS.2020.258>

On the narratives of e-government: a comparison of the democratic and technocratic approach in post-Soviet states

Wijk, Sam van; Lemke, Florian; **Draheim, Dirk** Electronic Governance and Open Society: Challenges in Eurasia : 7th International Conference, EGOSE 2020, St. Petersburg, Russia, November 18–19, 2020 : proceedings 2020 / p. 3–16 https://doi.org/10.1007/978-3-030-67238-6_1 [Conference proceeding at Scopus](#) [Article at Scopus](#)

On the potential of numerical association rule mining

Kaushik, Minakshi; Sharma, Rahul; Arakkal Peious, Sijo; Shahin, Mahtab; Ben Yahia, Sadok; Draheim, Dirk Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications : 7th International Conference, FDSE 2020, Quy Nhon, Vietnam, November 25–27, 2020 : proceedings 2020 / p. 3–20 https://doi.org/10.1007/978-981-33-4370-2_1 [Conference proceeding at Scopus](#) [Article at Scopus](#)

On the radical de- and re-construction of today's enterprise applications

Draheim, Dirk Procedia Computer Science 2019 / p. 120 - 122 <https://doi.org/10.1016/j.procs.2019.12.162> [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

On the specific role of electronic document and record management systems in enterprise integration

Pappel, Ingrid; Butt, Sidra Azmat; Pappel, Ingmar; Draheim, Dirk Proceedings of Fifth International Congress on Information and Communication Technology : ICICT 2020, London ; 2 2021 / p. 37–51 https://doi.org/10.1007/978-981-15-5859-7_3 [Article collection metrics at Scopus](#) [Article at Scopus](#)

On the systematic exploitation of the Estonian data exchange layer X-road for strengthening public-private partnerships

Paide, Karoline; **Pappel, Ingrid; Vainsalu, Heiko; Draheim, Dirk** ICEGOV2018 : proceedings of the 11th International Conference on Theory and Practice of Electronic Governance : 4 - 6 April 2018, Galway, Ireland 2018 / p. 34–41 <https://doi.org/10.1145/3209415.3209441> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Orchestration of serverless functions for scalable association rule mining with Apollo

Shahin, Mahtab; Janatian, Nasim; Poveda, Juan Aznar; Fahringer, Thomas; Ghasempouri, Tara; Shah, Syed Attique; Draheim, Dirk techrxiv.org 2024 / 20 p <https://doi.org/10.36227/techrxiv.172101151.16682756/v1>

A peer-to-peer data sharing framework for Web browsers : analysis and evaluation

Pattanaik, Vishwajeet; Sharvadze, Ioane; Draheim, Dirk SN Computer Science 2020 / art. 214, 10 p <https://doi.org/10.1007/s42979-020-00236-6>

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](#)

Performance of a distributed apriori algorithm using the serverless functions of the Apollo framework

Shahin, Mahtab; Shah, Syed Attique; Sharma, Rahul; Ghasempouri, Tara; Poveda, Juan Aznar; Fahringer, Thomas; Draheim, Dirk Machine Learning Methods in Systems : proceedings of 13th Computer Science On-line Conference 2024 2024 / 12 p <https://link.springer.com/book/9783031705946> https://doi.org/10.1007/978-3-031-70595-3_37 [Conference proceedings at Scopus](#) [Article at](#)

PPPS'2023 - proactive and personalised public services : searching for meaningful human control in algorithmic government

Nikiforova, Anastasija; Bharosa, Nitesh; **Draheim, Dirk**; Taveter, Kuldar EGOV-CeDEM-ePart-JP 2023: ongoing research, practitioners, posters, workshops, and projects at EGOV-CeDEM-ePart 2023 : joint proceedings of ongoing research, practitioners, posters, workshops, and projects at EGOV-CeDEM-ePart 2023 co-located with the International Conference EGOV-CeDEM-ePart (EGOV-CeDEM-ePart 2023) : Corvinus University of Budapest, September 4-7, 2023 2023 <https://ceur-ws.org/Vol-3449/> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Predicting psychiatric diseases using autoAI : a performance analysis based on health insurance billing data

Bertl, Markus; Ross, Peeter; Draheim, Dirk Database and Expert Systems Applications : 32nd International Conference, DEXA 2021, Virtual Event, September 27-30, 2021 : proceedings. Part I 2021 / p. 104-111 https://doi.org/10.1007/978-3-030-86472-9_9 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Prerequisites for the adoption of the X - Road Interoperability and data exchange framework : a comparative study

Saputro, Rois; Pappel, Ingrid; Vainsalu, Heiko; Lips, Silvia; Draheim, Dirk 2020 Seventh International Conference on eDemocracy & eGovernment (ICEDEG), Buenos Aires, Argentina, April 22–24, 2020 : proceedings 2020 / p. 216-222 <https://doi.org/10.1109/ICEDEG48599.2020.9096704>

The present and future of large-scale systems modeling and engineering

Draheim, Dirk Future Data and Security Engineering : Third International Conference, FDSE 2016, Can Tho City, Vietnam, November 23-25, 2016 : proceedings 2016 / p. 355-370 : ill https://doi.org/10.1007/978-3-319-48057-2_25 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

The Private Sector's Role in e-Government from a Legal Perspective

Löhmus, Kaisa; Nyman-Metcalf, Katrin Merike; Ahmed, Rozha Kamal; Pappel, Ingrid; Draheim, Dirk Fourth International Congress on Information and Communication Technology : ICICT 2019, London, Volume 2 2020 / p. 283–298 https://doi.org/10.1007/978-981-32-9343-4_22 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Reflective constraint writing : a symbolic viewpoint of modeling languages

Draheim, Dirk Transactions on large-scale data- and knowledge-centered systems XXIV : special issue on database- and expert-systems applications 2016 / p. 1-60 : ill http://dx.doi.org/10.1007/978-3-662-49214-7_1

Re-shaping the EU digital identity framework

Lips, Silvia; Vinogradova, Natalia; Krimmer, Robert Johannes; Draheim, Dirk 23rd Annual International Conference on Digital Government Research (DGO2022) : Intelligent Technologies, Governments and Citizens, June 15-17, 2022 : proceedings 2022 / p. 13-21 <https://doi.org/10.1145/3543434.3543652> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Riiklike tehnikaprofessuuride ees seisab rida väljakutseid

Kers, Jaan TööstusEST 2023 / lk. 32-34 : ill https://www.eester.ee/record=b4481084*est

Riiklike tehnikaprofessuuride väljakutsed roheleppe, ringmajanduse ja digiteerimise valguses

Kers, Jaan Mente et Manu 2022 / lk. 26-27 https://www.eester.ee/record=b1242496*est

The rising role of big data analytics and IoT in disaster management : recent advances, taxonomy and prospects

Shah, Syed Attique; Seker, Dursun Zafer; Hameed, Sufian; **Draheim, Dirk** IEEE Access 2019 / Art. nr. 8698814 <https://doi.org/10.1109/ACCESS.2019.2913340> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Robust Web annotations in support of knowledge co-creation = Töökindlad veebiannotatsioonid teadmiste ühisloome toetamiseks

Pattanaik, Vishwajeet 2022 <https://doi.org/10.23658/taltech.40/2022> <https://digikogu.taltech.ee/et/Item/763881f8-c5a1-4098-807c-ac39d02742b9> https://www.eester.ee/record=b5507460*est

The role of digital transformation in fostering transparency : an e-court system case study

Ahmed, Rozha Kamal; Ahmed, Omer; Pappel, Ingrid; Reitsakas, Aleksander; Draheim, Dirk The Role of Digital Technologies in Shaping the Post-Pandemic World : 21st IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2022, Newcastle upon Tyne, UK, September 13–14, 2022 : proceedings 2022 / p. 219–230 https://doi.org/10.1007/978-3-031-15342-6_17 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings 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](#)

A secure data infrastructure for personal manufacturing based on a novel key-less, byte-less encryption method
Vedešin, Anton; Dogru, John Mehmet Ulgar; Liiv, Innar; Ben Yahia, Sadok; Draheim, Dirk IEEE Access 2020 / p. 40039-40056 : ill <https://doi.org/10.1109/ACCESS.2019.2946730> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Semantics of the probabilistic typed lambda calculus : Markov chain semantics, termination behavior, and denotational semantics

Draheim, Dirk 2017 <https://doi.org/10.1007/978-3-642-55198-7> http://www.estser.ee/record=b4671951*est

Significant factors extraction : a combined logistic regression and apriori association rule mining approach

Shahin, Mahtab; Burtl, Markus; Heidari Iman, Mohammad Reza; Ghasempouri, Tara; Sharma, Rahul; Shah, Syed Attique; Draheim, Dirk Machine Learning Methods in Systems : proceedings of 13th Computer Science On-line Conference 2024 ; Vol. 4 2024 / p. 295-311 <https://link.springer.com/book/9783031705946> https://doi.org/10.1007/978-3-031-70595-3_30 [Conference proceeding at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Smart cyber-physical system for pattern recognition of illegal 3D designs in 3D printing

Vedešin, Anton; Dogru, John Mehmet Ulgar; Liiv, Innar; Ben Yahia, Sadok; Draheim, Dirk Smart Applications and Data Analysis : Third International Conference, SADASC 2020, Marrakesh, Morocco, June 25-26, 2020 : proceedings 2020 / p. 74-85 https://doi.org/10.1007/978-3-030-45183-7_6 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Smart cyber-physical system for personal manufacturing = Tark küberfüüsikaline süsteem personaalseks tootmiseks

Vedešin, Anton 2020 https://www.estser.ee/record=b5386400*est <https://digikogu.taltech.ee/et/Item/4dec3f85-ca80-4b07-ba18-0bec34669868>

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](#)

Sound localization and processing for inducing synesthetic experiences in virtual reality

Tepljakov, Aleksei; Astapov, Sergei; Petlenkov, Eduard; Vassiljeva, Kristina; Draheim, Dirk BEC 2016 : 2016 15th Biennial Baltic Electronics Conference : proceedings of the 15th Biennial Baltic Electronics Conference : Tallinn University of Technology, October 3-5, 2016, Tallinn, Estonia 2016 / p. 159-162 : ill http://www.estser.ee/record=b2150914*est

Stage models for moving from e-government to smart government

Lemke, Florian; Taveter, Kuldar; Erlenheim, Regina; Pappel, Ingrid; Draheim, Dirk; Janssen, Marijn Electronic Governance and Open Society: Challenges in Eurasia : 6th International Conference, EGOS 2019, St.Petersburg, Russia, November 13-14, 2019 : Proceedings 2020 / p. 152-164 https://doi.org/10.1007/978-3-030-39296-3_12 [Conference proceeding at Scopus](#) [Article at Scopus](#)

Success and success factors of the Estonian E-Residency from the state and entrepreneur perspective

Sallam, Mohammed Saber H. A.; Lips, Silvia; Draheim, Dirk Electronic Governance and Open Society: Challenges in Eurasia : 8th International Conference, EGOS 2021, Saint Petersburg, Russia, November 24-25, 2021 : proceedings 2022 / p. 291-304 https://doi.org/10.1007/978-3-031-04238-6_22 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Supporting the model-driven organization vision through deep, orthographic modeling

Tunjic, Christian; Atkinson, Colin; Draheim, Dirk Enterprise modelling and information systems architectures 2018 / 39 p. : ill <https://doi.org/10.18417/emisa.13.7>

A survey on AI and decision support systems in psychiatry – Uncovering a dilemma

Bertl, Markus; Ross, Peeter; Draheim, Dirk Expert Systems with Applications 2022 / art. 117464, 14 p. : ill <https://doi.org/10.1016/j.eswa.2022.117464> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey on artificial intelligence approaches in supporting frontline workers and decision makers for the COVID-19 pandemic

Rasheed, Jawad; Jamil, Akhtar; Draheim, Dirk Chaos, solitons & fractals 2020 / art. 110337, 17 p <https://doi.org/10.1016/j.chaos.2020.110337> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

A survey on customer satisfaction in national electronic ID user support

Muldme, Anne; Pappel, Ingrid; Lauk, Mihkel; Draheim, Dirk 2018 International Conference on eDemocracy & eGovernment (ICEDEG 2018) : Ambato, Ecuador, 4-6 April 2018 2018 / p. 31-37 : ill <http://doi.org/10.1109/ICEDEG.2018.8372374>

Swarm-intelligence algorithms for mining numerical association rules : an exhaustive multi-aspect analysis of performance assessment data

Kaushik, Minakshi; Kõiva, Pilleriin; Sharma, Rahul; Fister, Iztok jr.; **Draheim, Dirk** SSRN 2023 / 37 p
<https://ssrn.com/abstract=4399331> <https://doi.org/10.2139/ssrn.4399331>

System model of the Sulaymaniyah Appellate Court e-court system

Ahmed, Rozha Kamal; Reitsakas, Aleksander; Muhammed, Khder H.; Saeed, Soran AB.; **Pappel, Ingrid; Draheim, Dirk** SSRN 2022 / 107 p <https://doi.org/10.2139/ssrn.4180966>

Systematic AI support for decision-making in the healthcare sector : obstacles and success factors

Bertl, Markus; Ross, Peeter; Draheim, Dirk Health policy and technology 2023 / art. 100748, 8 p. : ill
<https://doi.org/10.1016/j.hlpt.2023.100748> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Systematic AI support for psychiatry : a framework on how to implement decision support systems = Tehisintellekti süstemaatilise kasutamise psühhiaatrias : otsustustoe rakendamist toetav raamistik

Bertl, Markus 2023 <https://doi.org/10.23658/taltech.57/2023> <https://digikogu.taltech.ee/et/Item/a77022c7-b2af-46f9-ae83-62fe04f9bc72>
https://www.ester.ee/record=b5645221*est

A systematic assessment of numerical association rule mining methods

Kaushik, Minakshi; Sharma, Rahul; Arakkal Peious, Sijo; Shahin, Mahtab; Ben Yahia, Sadok; Draheim, Dirk SN Computer Science 2021 / art. 348 <https://doi.org/10.1007/s42979-021-00725-2> [Journal metrics at Scopus](#) [Article at scopus](#)

Systematic digital signing in Estonian e-Government processes : influencing factors, technologies, change management

Pappel, Ingrid; Pappel, Ingmar; **Tepandi, Jaak; Draheim, Dirk** Transactions on large-scale data- and knowledge-centered systems XXXVI : special issue on data and security engineering 2017 / p. 31-51 : ill https://doi.org/10.1007/978-3-662-56266-6_2 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Systematic support for full knowledge management lifecycle by advanced semantic annotation across information system boundaries

Pattanaik, Vishwajeet; Norta, Alexander; Felderer, Michael; **Draheim, Dirk** Information Systems in the Big Data Era : CAiSE Forum 2018, Tallinn, Estonia, June 11-15, 2018 : proceedings 2018 / p. 66-73 https://doi.org/10.1007/978-3-319-92901-9_7 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Ten years of the e-Health system in Estonia

Metsallik, Janek; Ross, Peeter; Draheim, Dirk; Piho, Gunnar Proceedings of the 3rd International Workshop on (Meta)Modelling for Healthcare Systems : Bergen, Norway, June 13th, 2018 2018 / p. 6-15 : ill <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063545781&partnerID=40&md5=f41245c5435512866e6bcbaf5a03ba85> <http://ceur-ws.org/Vol-2336/> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

The data quality framework for the Estonian public sector and its evaluation : establishing a systematic process-oriented viewpoint on cross-organizational data quality

Tepandi, Jaak; Lauk, Mihkel; Linros, Janar; Rospel, Priit; **Piho, Gunnar; Pappel, Ingrid; Draheim, Dirk** Transactions on large-scale data- and knowledge-centered systems XXXV 2017 / p. 1-26 : ill https://doi.org/10.1007/978-3-662-56121-8_1 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The digital archiving process in Estonia - assessment and future perspectives

Pappel, Ingrid; Oolu, Karin; Saarevet, Koit; **Lauk, Mihkel; Draheim, Dirk** Future Data and Security Engineering : 4th International Conference, FDSE 2017, Ho Chi Minh City, Vietnam, November 29 - December 1, 2017 : proceedings 2017 / p. 472-481 : ill https://doi.org/10.1007/978-3-319-70004-5_34 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

The e-LocGov model for introducing e-governance into local governments : an Estonian case study

Pappel, Ingrid; Tsap, Valentyna; Draheim, Dirk IEEE Transactions on Emerging Topics in Computing 2021 / p. 597-611
<https://doi.org/10.1109/TETC.2019.2910199> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The potential of the Estonian e-Governance infrastructure in supporting displaced Estonian residents

Thurnay, Lörinc; Klasche, Benjamin; **Nyman-Metcalf, Katrin Merike; Pappel, Ingrid; Draheim, Dirk** Electronic Government and the Information Systems Perspective : 6th International Conference, EGOVIS 2017, Lyon, France, August 28-31, 2017 : proceedings 2017 / p. 236-250 https://doi.org/10.1007/978-3-319-64248-2_17 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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](#)

Three-dimensional visualization of legal acts : concept and prototype

Täks, Ermo; Kruuk, Helina; Draheim, Dirk Future data and security engineering : big data, security and privacy, smart city and industry 4.0 applications : 10th International Conference, FDSE 2023, Da Nang, Vietnam, November 22-24, 2023, proceedings 2023 / p. 3-17 https://doi.org/10.1007/978-981-99-8296-7_1 [Conference Proceedings 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 Cross-Border Reference Architecture for the Once-Only Principle in Europe : An Enterprise Modelling Approach

Tepandi, Jaak; Grandry, Eric; Fieten, Sander; **Draheim, Dirk**; **Piho, Gunnar** The Practice of Enterprise Modeling : 12th IFIP Working Conference, PoEM 2019, Luxembourg, Luxembourg, November 27–29, 2019 : proceedings 2019 / p. 103-117 https://doi.org/10.1007/978-3-030-35151-9_7 [Conference proceeding at Scopus](#) [Article at Scopus](#) [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 a machine learning-based framework for DDOS attack detection in software-defined IoT (SD-IoT) networks

Bhayo, Jalal; Shah, Syed Attique; Hameed, Sufian; Ahmed, Awais; Nasir, Jamal; **Draheim, Dirk** Engineering Applications of Artificial Intelligence 2023 / art. 106432 <https://doi.org/10.1016/j.engappai.2023.106432> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Towards a synesthesia laboratory : real-time localization and Visualization of a sound source for virtual reality applications

Köse, Ahmet; **Tepljakov, Aleksei**; **Astapov, Sergei**; **Draheim, Dirk**; **Petlenkov, Eduard**; **Vassiljeva, Kristina** Journal of communications software and systems 2018 / p. 112–120 : ill <https://doi.org/10.24138/jcomss.v14i1.410> [Journal metrics at Scopus](#) [Article at Scopus](#)

Towards disaster resilient smart cities : can internet of things and big data analytics be the game changers?

Shah, Syed Attique; Seker, Dursun Zafer; Rathore, M. Mazhar; Hameed, Sufian; **Ben Yahia, Sadok**; **Draheim, Dirk** IEEE Access 2019 / art. 8759905, p. 91885–91903 <https://doi.org/10.1109/ACCESS.2019.2928233> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [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](#)

Towards smarter maritime security : Apriori algorithm optimization in serverless environments

Shahin, Mahtab; **Rahimpour, Saeed**; **Ghasempouri, Tara**; **Bauk, Sanja**; **Fahringer, Tara**; **Draheim, Dirk** Procedia computer science 2025 / p. 1 - 8 https://scholar.google.com/citations?view_op=view_citation&hl=en&user=9AGg5vkAAAAJ&start=20&pagesize=80&citation_for_view=9AGg5vkAAAAJ:f6ydRqryjwC

Towards unification of statistical reasoning, OLAP and association rule mining : semantics and pragmatics

Sharma, Rahul; **Kaushik, Minakshi**; **Arakkal Peious, Sijo**; Shahin, Mahtab; **Draheim, Dirk** Database Systems for Advanced Applications : 27th International Conference, DASFAA 2022, Virtual Event, April 11–14, 2022 : proceedings. Part I 2022 / p. 596–603 https://doi.org/10.1007/978-3-031-00123-9_48 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

Towards user-centered and legally relevant smart-contract development : a systematic literature review

Dixit, Abhishek; **Deval, Vipin**; **Dwivedi, Vimal Kumar**; **Draheim, Dirk** Journal of Industrial Information Integration 2022 / art. 100314 ; 18 p <https://doi.org/10.1016/j.jii.2021.100314> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Twitter streaming data analytics for disaster alerts

Shah, Syed Attique; **Ben Yahia, Sadok**; McBride, Keegan David Braun; Jamil, Akhtar; **Draheim, Dirk** 2021 2nd International Informatics and Software Engineering Conference (IISEC) : proceedings 2021 / 6 p <https://doi.org/10.1109/IISEC54230.2021.9672370>

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](#)

Unification of decision support techniques : mitigating statistical paradoxes for enabling trustworthy decision making = Otsuste toetamise tehnikate ühtlustamine : statistiliste paradokside mõju maandamine usaldusväärsete otsuste tegemise võimaldamiseks

Sharma, Rahul 2023 <https://doi.org/10.23658/taltech.49/2023> <https://digikogu.taltech.ee/et/Item/ae7a764a-f548-4750-8ba8-5efa79038799>

https://www.ester.ee/record=b5638878*est

A unifying theory of electronic money and payment systems

Buldas, Ahto; Saarepera, Märt; Steiner, Jamie; **Draheim, Dirk** techrxiv.org 2021 <https://doi.org/10.36227/techrxiv.14994558.v2>

Unraveling the social-technical complexity of dashboards for transformation

Lemke, Florian; **Janssen, Marijn**; **Draheim, Dirk** Electronic Governance and Open Society: Challenges in Eurasia : 8th International Conference, EGOSE 2021, Saint Petersburg, Russia, November 24–25, 2021 : proceedings 2022 / p. 21-34

https://doi.org/10.1007/978-3-031-04238-6_3 [Conference proceedings at Scopus](#) [Article at Scopus](#)

The utilization of public-private partnership frameworks in the management of eID projects

Mander, Stina; **Lips, Silvia**; **Draheim, Dirk** Electronic Government and the Information Systems Perspective, 12th International Conference, EGOVIS 2023, Penang, Malaysia, August 28–30, 2023, Proceedings 2023 / p. 17-32 https://doi.org/10.1007/978-3-031-39841-4_2

[Conference proceedings at Scopus](#) [Article at Scopus](#)

Utilizing Continuous Time Markov Chain for analyzing video-on-demand streaming in multimedia systems

Ghosh, Debjani; Pandey, Mayank; Gautam, Chakrapani; Vidyarthi, Ankit; **Sharma, Rahul**; **Draheim, Dirk** Expert Systems with Applications 2023 / art. 119857, 24 p.: ill <https://doi.org/10.1016/j.eswa.2023.119857> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Why not to trust big data : discussing statistical paradoxes

Sharma, Rahul; **Kaushik, Minakshi**; **Arakkal Peious, Sijo**; **Shahin, Mahtab**; Vidyarthi, Ankit; Tiwari, Prayag; **Draheim, Dirk** Database Systems for Advanced Applications : DASFAA 2022, International Workshops BDMS, BDQM, GDMA, IWB, MATQTDS, and PMBD, Virtual Event, April 11–14, 2022 : proceedings 2022 / p. 50-63 : ill https://doi.org/10.1007/978-3-031-11217-1_4 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Vulnerability of state-provided electronic identification : the case of ROCA in Estonia

Valtna-Dvorak, Astrid; **Lips, Silvia**; **Tsap, Valentyna**; **Ottis, Rain**; **Priisalu, Jaan**; **Draheim, Dirk** Electronic Government and the Information Systems Perspective : 10th International Conference, EGOVIS 2021, Virtual Event, September 27–30, 2021 : proceedings 2021 / p. 73–85 https://doi.org/10.1007/978-3-030-86611-2_6 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

[Conference Proceedings at WOS](#) [Article at WOS](#)