

### **AI recasts DiCaprio in 1969 Estonian classic**

**Liiv, Innar** estonianworld.com 2025 <https://estonianworld.com/culture/ai-recasts-dicaprio-in-1969-estonian-classic/>

### **An efficient method for post analysis of patterns**

**Kuusik, Rein, inform.; Liiv, Innar; Lind, Grete** Proceedings of the IASTED International Conference on Artificial Intelligence and Applications : Innsbruck, Austria, February 14-16, 2005 2005 / p. 101-105  
[https://www.researchgate.net/publication/221173660\\_An\\_Efficient\\_Method\\_for\\_Post\\_Analysis\\_of\\_Patterns](https://www.researchgate.net/publication/221173660_An_Efficient_Method_for_Post_Analysis_of_Patterns)

### **An analysis of community structure detection for educational coopetition**

**Übi, Jaan; Liiv, Innar; Übi, Evald; Võhandu, Leo** 2013 Second International Conference on e-Learning and e-Technologies in Education (ICEEE 2013) : proceedings of a meeting held 23-25 September 2013, Lodz, Poland 2013 / p. 104-109 : ill

### **Analytical CRM with conformity analysis**

**Liiv, Innar; Kuusik, Rein, inform.; Võhandu, Leo** WSEAS transactions on systems and control 2007 / 2, p. 155-161

### **Andmekaevandamine**

**Liiv, Innar** A & A 2005 / 6, lk. 28-43 : ill

### **Autonoomsete intelligentsete tehnoloogiate kasutamise seotud küsimuste reguleerimiseks vajalike õigusloome probleemide tuvastamine ja lahendustepanekute tegemine : II etapi aruanne**

**Kerikmäe, Tanel; Nyman-Metcalf, Katrin Merike; Tehver, Jaanus; Hoffmann, Thomas; Taveter, Kuldar; Liiv, Innar; Pärn-Lee, Evelin; Salumaa-Lepik, Kärt** vt. ka Salumaa, Kärt; **Antonov, Alexander**; Rozeik, Helena 2019

### **Business process mining in warehouses : a case study**

**Lepik, Ott; Liiv, Innar** Technical report [Online publication] 2012 / 14 p. : ill <https://www.semanticscholar.org/paper/Business-Process-Mining-in-Warehouses%3A-a-Case-Study-Liiv-Lepik/d0d06e4cee0d18a4d5d0c5356143ffd70aa3d4f0>

### **Business process mining in warehouses : a case study**

**Liiv, Innar; Lepik, Ott** Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014 2014 / p. 387-394 : ill

### **Capacity building in government : towards developing a standard for a functional specialist in AI for public services**

**Labanava, Alena; Dreyling III, Richard Michael; Mortati, Marzia; Liiv, Innar; Pappel, Ingrid** 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. 503-516 [https://doi.org/10.1007/978-981-19-8069-5\\_34](https://doi.org/10.1007/978-981-19-8069-5_34) [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

### **Classification of supply chain practices according to customer values in automotive industry**

**Maleki, Meysam; Liiv, Innar; Ševtšenko, Eduard; Cruz-Machado, V.** Proceedings of the 8th International Conference of DAAAM Baltic Industrial Engineering, 19-21st April 2012, Tallinn, Estonia. 2 2012 / p. 542-547 : ill

### **Comparing domain expert and machine learning data enrichment of building registry**

**Torim, Ants; Iliste, Elisa; Pikas, Ergo; Liiv, Innar; Robal, Tarmo; Kalamees, Targo** Buildings 2025 / art. 1798  
<https://doi.org/10.3390/buildings15111798>

### **Competence based learning - framework, implementation, analysis and management of learning process =**

**Kompetentsipõhine õpe - raamistik, implementatsioon, analüüs ja õppeprotsessi juhtimine**

**Umbleja, Kadri** 2017 <https://digi.lib.ttu.ee/ii/?7573> [https://www.ester.ee/record=b4670803\\*est](https://www.ester.ee/record=b4670803*est)

### **Computer aided corporate sense-making and prioritization for SDGs**

**Liiv, Innar; Karo, Erkki; Soe, Ralf-Martin** The Ethics of Artificial Intelligence for the Sustainable Development Goals 2023 / p. 365-378 [https://doi.org/10.1007/978-3-031-21147-8\\_20](https://doi.org/10.1007/978-3-031-21147-8_20) [https://link.springer.com/chapter/10.1007/978-3-031-21147-8\\_20](https://link.springer.com/chapter/10.1007/978-3-031-21147-8_20)

### **Concept of Estonian government cloud and data embassies**

**Kotka, Taavi; Liiv, Innar** Electronic Government and the Information Systems Perspective : 4th International Conference, EGOVIS 2015, Valencia, Spain, September 1-3, 2015 : proceedings 2015 / p. 149-162 : ill [https://doi.org/10.1007/978-3-319-22389-6\\_11](https://doi.org/10.1007/978-3-319-22389-6_11)  
[Conference Proceedings at Scopus](#) [Article at Scopus](#)

### **Conformity analysis with structured query language**

**Liiv, Innar; Kuusik, Rein, inform.; Võhandu, Leo** 6th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and Data Bases : Corfu Island, Greece, February 16-19, 2007 2007 / p. 187-189  
[https://www.academia.edu/3807457/Conformity\\_analysis\\_with\\_structured\\_query\\_language](https://www.academia.edu/3807457/Conformity_analysis_with_structured_query_language)

### **Creating an information architecture for an enterprise large-scale websites using a card sorting method**

**Järv, Natalia; Liiv, Innar; Ivask, Jekaterina; Merkulova, Maria** Databases and Information Systems : proceedings of the 11th International Baltic Conference, Baltic DB&IS 2014 : Tallinn, Estonia, 8-11 June, 2014 2014 / p. 459-464

### **Czekanowski-Bertin learning paradigm : a discussion**

**Liiv, Innar** Proceedings of the 2007 International Conference on Artificial Intelligence : ICAI 2007 : Las Vegas, June 25-28, 2007 2007 / p. 90-95

### **Data science techniques for cryptocurrency blockchains**

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

### **Developing autonomous robotic transport systems for hospitals and medical facilities : legal challenges**

**Kerikmäe, Tanel; Kajander, Aleks Oskar Johannes; Hamulak, Ondrej; Mesarčik, Matuš; Andraško, Jozef; Liiv, Innar** Icon 2023 / p. 88-104 <https://www.icohtec.org/icon/volume-28-issue-2-2023/> <https://doi.org/10.11590/icon.2023.2.04> [Journal metrics at Scopus](#) [Article at Scopus](#)

### **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**

**Ramat, 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 social work: tools for practice with individuals, organizations, and communities**

**Liiv, Innar** European journal of social work 2020 / p. 175-176 <https://doi.org/10.1080/13691457.2020.1767943>

### **Domain engineering for cyber defense: a case study and implications**

**Tepandi, Jaak; Piho, Gunnar; Liiv, Innar** Conference on Cyber Conflict : proceedings 2010 2010 / p. 59-77

### **Editorial message : Special track on Intelligent Systems for Digital Era (ISDE)**

**Robal, Tarmo; Liiv, Innar; Kalibatiene, Diana** SAC '23: Proceedings of the 38th ACM/SIGAPP Symposium on Applied Computing 2023 / p. 824-825 <https://doi.org/10.1145/3555776>

### **Eesti elektrisüsteemi laiseiresüsteemi arendamine ja analüüs (WAMPAC) : uurimustöö 1.1-4/13/232 / Lep13118 II etapi aruanne [Võrguväljaanne]**

**Palu, Ivo; Meldorf, Mati; Šuvalova, Jelena; Liiv, Innar; Tuttlberg, Kaur; Kangro, Triin; Astapov, Victor; Sarnet, Tanel; Šlenduuhov, Vadim; Kilter, Jako; Ülavere, Eero; Reinson, Andrus** 2014

### **e-Governance education for sustainable development: prioritising sustainable development goals and building capabilities to drive progress : an AHP approach**

**Labanava, Alena; Liiv, Innar; Pappel, Ingrid** Proceedings of the 16th International Conference on Theory and Practice of Electronic Governance 2023 / p. 206-213 <https://doi.org/10.1145/3614321.3614350>

### **E-government services migration to the public cloud : experiments and technical findings**

**Kotka, Taavi; Johnson, Bruce; Cebul, Tomaz; Lovosevic, Luka; Liiv, Innar** Electronic Government and the Information Systems Perspective : 5th International Conference, EGOVIS 2016, Porto, Portugal, September 5-8, 2016 : proceedings 2016 / p. 62-76 : ill [https://doi.org/10.1007/978-3-319-44159-7\\_5](https://doi.org/10.1007/978-3-319-44159-7_5) [http://www.esteeer.ee/record=b4645628\\*est](http://www.esteeer.ee/record=b4645628*est) [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

### **Eksperdid: andmenappus ei pidurda tehisaru arengut veel niipea**

**Piir, Rait** novaator.err.ee 2024 [Eksperdid: andmenappus ei pidurda tehisaru arengut veel niipea](#)

### **Enhancing public employment services with AI-enabled virtual competence assistant = Avalike tööturuteenuste parendamine tehisintellektil põhineva virtuaalse kompetentsiassistendiga**

**Liutkevičius, Markko** 2024 [https://www.esteeer.ee/record=b5702542\\*est](https://www.esteeer.ee/record=b5702542*est) <https://digikogu.taltech.ee/et/Item/05da711f-6b9e-4942-b6f1-50465521ccbb> <https://doi.org/10.23658/taltech.51/2024>

### **Entrepreneurial competence and the personal traits of an entrepreneur : analysis on the basis of students' self-evaluation**

**Venesaar, Urve; Liiv, Signe; Liiv, Innar; Pihlak, Merle** 5th International Scientific Conference : Business and Management' 2008 : conference proceedings 2008 / p. 156-157 [https://www.researchgate.net/publication/267194440\\_ENTREPRENEURIAL\\_COMPETENCE\\_AND\\_THE\\_PERSONAL\\_TRAITS\\_OF\\_AN\\_ENTREPRENEUR\\_ANALYSIS\\_ON\\_THE\\_BASIS\\_OF\\_STUDENTS'\\_SELF-EVALUATION](https://www.researchgate.net/publication/267194440_ENTREPRENEURIAL_COMPETENCE_AND_THE_PERSONAL_TRAITS_OF_AN_ENTREPRENEUR_ANALYSIS_ON_THE_BASIS_OF_STUDENTS'_SELF-EVALUATION)

### **Entrepreneurial competence and the personal traits of an entrepreneur : analysis on the basis of students' self-evaluation**

**Venesaar, Urve; Liiv, Signe; Liiv, Innar; Pihlak, Merle** 5th International Scientific Conference : Business and Management' 2008 :

May 16-17, 2008, Vilnius, Lithuania : selected papers 2008 / p. 320-326

[https://www.researchgate.net/publication/267194440\\_ENTREPRENEURIAL\\_COMPETENCE\\_AND\\_THE\\_PERSONAL\\_TRAITS\\_OF\\_AN\\_ENTREPRENEUR\\_ANALYSIS\\_ON\\_THE\\_BASIS\\_OF\\_STUDENTS\\_SELF-EVALUATION](https://www.researchgate.net/publication/267194440_ENTREPRENEURIAL_COMPETENCE_AND_THE_PERSONAL_TRAITS_OF_AN_ENTREPRENEUR_ANALYSIS_ON_THE_BASIS_OF_STUDENTS_SELF-EVALUATION)

### **Estonia como país líder en gobierno electrónico : enfoque legal para regular la inteligencia artificial**

**Kerikmäe, Tanel; Nyman-Metcalf, Katrin Merike; Tehver, Jaanus; Hoffmann, Thomas; Taveter, Kuldar; Liiv, Innar; Pärn-Lee, Evelin; Salumaa-Lepik, Kärt; Shumilo, Olga; Ramiro Troitino, David** Inteligencia artificial : de la discrepancia regional a las reglas universales 2020 <https://www.marcialpons.es/libros/inteligencia-artificial-de-la-discrepancia-regional-a-las-reglas-universales/9788413468358/>

### **Ettevõtlusalane kompetentsus ja ettevõtja isikuomadused: analüüs üliõpilaste enesehinnangu alusel**

**Venesaar, Urve; Liiv, Signe; Liiv, Innar** IV ettevõtte majanduse konverents : konverentsi ettekanded-artiklid (Pärnu, 20.-21. jaanuar 2006) 2006 / p. 190-206

### **Euroopa oma tehismõistus**

**Tammet, Tanel; Liiv, Innar** Sirp 2020 / lk. 33-34 : ill <https://www.sirp.ee/s1-artiklid/c21-teadus/euroopa-oma-tehismoistus/>  
[https://www.ester.ee/record=b1072938\\*est](https://www.ester.ee/record=b1072938*est)

### **Evaluation of matrix seriation algorithms**

**Liiv, Innar** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK kolmanda aastakonverentsi artiklite kogumik : 25.-26. aprill 2008, Voore külalistemaja 2008 / p. 33-34

### **An experiment to find the deep structure of Estonian legislation**

**Täks, Ermo; Võhandu, Leo; Lohk, Ahti; Liiv, Innar** Legal Knowledge and Information Systems : JURIX 2011 : the twenty-fourth annual conference 2011 / p. 93-102

### **1st Report on Legal Framework and Analysis Related to Autonomous Intelligent Technologies**

**Kerikmäe, Tanel; Nyman-Metcalf, Katrin Merike; Hoffmann, Thomas; Minn, Mari; Liiv, Innar; Taveter, Kuldar; Shumilo, Olga; Solarte Vasquez, Maria Claudia; Antonov, Alexander** 2019 <https://www.researchgate.net/publication/331996458>

### **Heat loss characteristics of typology-based apartment building external walls for a digital twin-based renovation strategy tool**

**Ilviste, Elisa; Lomp, Siim; Pikas, Ergo; Arumägi, Endrik; Hallik, Jaanus; Öiger, Karl; Kisel, Einari; Liiv, Innar; Kalamees, Targo** Journal of Physics: Conference Series 2023 / 8 p <https://doi.org/10.1088/1742-6596/2654/1/012125> [Conference proceedings at Scopus](#)  
[Article at Scopus](#)

### **Innar Liiv: kuidas muuta “Kevade” värviliseks ja Arno DiCaprioks?**

**Liiv, Innar** Trialoog 2025 <https://trialoog.taltech.ee/innar-liiv-kuidas-muuta-kevade-varviliseks-ja-arno-dicaprioks/>

### **Innar Liiv: millist erakonda valiks ChatGPT?**

**Liiv, Innar** err.ee 2024 [Innar Liiv: millist erakonda valiks ChatGPT?](#)

### **In-phase matrix profile : a novel method for the detection of major depressive disorder**

**Uudeberg, Tuuli; Belikov, Juri; Päeske, Laura; Hinrikus, Hiie; Liiv, Innar; Bachmann, Maie** Biomedical Signal Processing and Control 2024 / art. 105378 <https://doi.org/10.1016/j.bspc.2023.105378> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Inventory classification enhancement with demand associations**

**Liiv, Innar** 2006 IEEE International Conference on Service Operations and Logistics and Informatics : Shanghai, China, June 21-23, 2006 2006 / p. 18-22 <https://ieeexplore.ieee.org/document/4125544>

### **Kas sul tehisarü jaoks kodulehekül on?**

**Liiv, Innar** postimees.ee 2025 <https://majandus.postimees.ee/8280427/andmeteadlane-kas-sul-tehisaru-jaoks-kodulehekulg-on>

### **Kogukondlik haldus ja kohalik omavalitsus – side ajalooga teel tulevikku**

**Lääne, Sulev; Lepik, Katri-Liis; Liiv, Innar; Mäeltsemees, Sulev; Lõhmus, Mikk; Trei, Jan; Ratask, Jüri** Riigikogu Toimetised 2023 / lk. 29-64 : ill <https://rito.riigikogu.ee/wordpress/wp-content/uploads/2023/12/RiTo-48-1.pdf>

### **Kuidas viia Eestis sujuvalt läbi renoveerimislaine?**

**Kisel, Einari; Kalamees, Targo; Pikas, Ergo; Liiv, Innar; Arumägi, Endrik** Mente et Manu 2023 / lk. 40-41 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

### **Matrix reordering with monotonic systems : background, formulation, motivation and extensions**

**Liiv, Innar** Info- ja kommunikatsioonitehnoloogia doktorikooli IKTDK teise aastakonverentsi artiklite kogumik : 11.-12. mai 2007, Viinistu kunstimuseum 2007 / lk. 13-16 : ill

**Megatrend and intervention impact analyzer for jobs : a visualization method for labor market intelligence**

Õpik, Rain; Kirt, Toomas; Liiv, Innar Journal of official statistics 2018 / p. 961-979 : ill <https://doi.org/10.2478/jos-2018-0047>  
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Conference Proceedings at WOS](#) [Article at WOS](#)

**Methods for coopetition and retention analysis : an application to university management = Koopetitsiooni ja väljalangevuse uurimise meetodid : rakendus ülikooli juhtimises**

Übi, Jaan 2014 [https://www.ester.ee/record=b3090746\\*est](https://www.ester.ee/record=b3090746*est)

**Mida õppida Stanfordini ja Oxfordi ülikoolide näitel?**

Liiv, Innar Mente et Manu 2016 / lk. 28-29 : fot [https://artiklid.elnet.ee/record=b2767551\\*est](https://artiklid.elnet.ee/record=b2767551*est)

**Mining and visualizing power in social network analysis**

Liiv, Innar Proceedings of the International Conference on Artificial Intelligence (ICAI'05) : Las Vegas, Nevada, June 27-30, 2005 2005 / p. 754-759

**MIT ja TTÜ kompasid Tallinnas teineteist : [Tallinnas toimus MIT Global Startup Workshop : ka Alar Kolgi ja Innar Liivi kommentaaridega]**

Kalev, Raul; Kolk, Alar; Liiv, Innar Mente et Manu 2013 / lk. 10 [https://artiklid.elnet.ee/record=b2612185\\*est](https://artiklid.elnet.ee/record=b2612185*est)

**MIT Tallinna Tehnikaülikool : kas on mõistlik arendada oma brändi või tippülikoolilt teenus sisse osta?**

Liiv, Innar Sirp 2016 / lk. 32 : fot <http://www.sirp.ee/s1-artiklid/c21-teadus/mit-tallinna-tehnikaulikool/>

**Mobile phone usage data for credit scoring**

Ots, Henri; Liiv, Innar; Tur, Diana Databases and Information Systems : 14th International Baltic Conference, DB&IS 2020, Tallinn, Estonia, June 16-19, 2020 : Proceedings 2020 / p. 82-95 [https://doi.org/10.1007/978-3-030-57672-1\\_7](https://doi.org/10.1007/978-3-030-57672-1_7) [Conference proceeding at Scopus](#) [Article at Scopus](#)

**MORec: At the crossroads of context-aware and multi-criteria decision making for online music recommendation**

Ben Sassi, Imen; Ben Yahia, Sadok; Liiv, Innar Expert systems with applications 2021 / art. 115375, 20 p. : ill <https://doi.org/10.1016/j.eswa.2021.115375>

**Mustrite avastamine kasutades järjestamist ning maatriksi ümberkorraastamist : unifitseeritud vaade, edasiarendused ning rakendus ladude juhtimises : kommentaar Rahvusvahelise Klassifitseerimise Ühingu parima interdistsiplinaarse väitekirja auhinna pälvinud tööle**

Liiv, Innar Tallinna Tehnikaülikooli aastaraamat 2009 2010 / lk. 205-207 [https://www.ester.ee/record=b1212786\\*est](https://www.ester.ee/record=b1212786*est)

**Negotiation framework for Baltic fisheries management : striking the balance of interest**

Aps, Robert; Kell, Laurence T.; Lassen, Hans; Liiv, Innar ICES journal of marine science 2007 / 4, p. 858-861 <https://academic.oup.com/icesjms/article/64/4/858/638828>

**Pattern based software architecture for predictive maintenance**

Torim, Ants; Liiv, Innar; Ounoughi, Chahinez; Ben Yahia, Sadok Nordic Artificial Intelligence Research and Development : 4th Symposium of the Norwegian AI Society, NAIS 2022, Oslo, Norway, May 31 - June 1, 2022 : revised selected papers 2022 / p. 26-38 [https://doi.org/10.1007/978-3-031-17030-0\\_3](https://doi.org/10.1007/978-3-031-17030-0_3) [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Pattern discovery using seriation and matrix reordering : a unified view, extensions and an application to inventory management = Mustrite avastamine kasutades järjestamist ning maatriksi ümberkorraastamist: unifitseeritud vaade, edasiarendused ning rakendus ladude juhtimises**

Liiv, Innar; Kuusik, Rein, inform. 2008 [https://www.ester.ee/record=b2402187\\*est](https://www.ester.ee/record=b2402187*est)

**Personalized context-aware recommendations in SMARTMUSEUM : combining semantics with statistics**

Liiv, Innar; Tammet, Tanel; Ruotsalo, Tuukka; Kuusik, Alar Proceedings of the Third International Conference on Advances in Semantic Processing (SEMAPPRO 2009) : Sliema, Malta, October 2009 2009 / p. 50-55 <https://ieeexplore.ieee.org/document/5291537>

**Policy and legal environment analysis for e-Government services migration to the public cloud**

Kotka, Taavi; Kask, Laura; Raudsepp, Karoliina; Storch, Tyson; Radloff, Rebecca; Liiv, Innar ICEGOV '15-16 : proceedings of the 9th International Conference on Theory and Practice of Electronic Governance : Montevideo, Uruguay, March 1-3, 2016 2016 / p. 103-108 : ill <https://doi.org/10.1145/2910019.2910056> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Predicting student retention by comparing histograms of bootstrapping for Charnes-Cooper transformation-linear programming discriminant analysis**

Übi, Jaan; Übi, Evald; Liiv, Innar; Võhandu, Leo 2013 Second International Conference on e-Learning and e-Technologies in Education (ICEEE 2013) : proceedings of a meeting held 23-25 September 2013, Lodz, Poland 2013 / p. 110-114 : ill

**Predicting student retention by linear programming discriminant analysis**

Übi, Jaan; Übi, Evald; Liiv, Innar; Murtazin, Kristina International journal of technology and educational marketing 2014 / p. 43-53 :

**Quality and accuracy of digital twin models for the neighbourhood level building energy performance calculations**  
**Parts, Egert-Ronald; Pikas, Ergo; Parts, Tuule Mall; Arumägi, Endrik; Liiv, Innar** E3S Web of Conferences : 11th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, IAQVEC2023 2023 / art. 04021, 8 p. : ill  
<https://doi.org/10.1051/e3sconf/202339604021> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**Quantification of building envelope heat losses on a district level for comparative renovation strategies assessment**  
**Arumägi, Endrik; Hallik, Jaanus; Pikas, Ergo; Kalamees, Targo; Liiv, Innar; Kisel, Einari** Journal of Physics: Conference Series 2023 / 10 p <https://doi.org/10.1088/1742-6596/2654/1/012003> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**SARS-CoV-2 Coronavirus data compression benchmark**  
**Liiv, Innar** arXiv.org 2020 / 6 p. <https://arxiv.org/abs/2012.12013>

**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](#)

**Self-organizing map, matrix reordering and multidimensional scaling as alternative and complementary methods in a semantic study**  
**Kirt, Toomas; Liiv, Innar; Vainik, Ene** Proceedings of the 2007 International Conference on Artificial Intelligence : ICAI 2007. Volume 1 2007 / p. 385-390 [https://www.researchgate.net/publication/220835093\\_Self-Organizing\\_Map\\_Matrix\\_Reordering\\_and\\_Multidimensional\\_Scaling\\_as\\_Alternative\\_and\\_Complementary\\_Methods\\_in\\_a\\_Semantic\\_Study](https://www.researchgate.net/publication/220835093_Self-Organizing_Map_Matrix_Reordering_and_Multidimensional_Scaling_as_Alternative_and_Complementary_Methods_in_a_Semantic_Study)

**Seriation and matrix reordering methods : an historical overview**  
**Liiv, Innar** Statistical analysis and data mining 2010 / 2, p. 70-91 : ill [http://innar.com/Liiv\\_Seriation.pdf](http://innar.com/Liiv_Seriation.pdf)

**Seriation and matrix reordering methods for asymmetric one-mode two-way datasets**  
**Liiv, Innar; Võhandu, Leo** Advanced studies in behaviormetrics and data science : Essays in Honor of Akinori Okada 2020 / p. 159-175 [https://doi.org/10.1007/978-981-15-2700-5\\_10](https://doi.org/10.1007/978-981-15-2700-5_10)

**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](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.ester.ee/record=b5386400\\*est](https://www.ester.ee/record=b5386400*est) <https://digikogu.taltech.ee/et/Item/4dec3f85-ca80-4b07-ba18-0bec34669868>

**Sotsiaälvõrgustike analüüs**  
**Liiv, Innar** Kuidas mõista andmestunud maailma? : metodoloogiline teejuht 2020 / lk. 178-209  
[https://www.ester.ee/record=b5388794\\*est](https://www.ester.ee/record=b5388794*est)

**Special track on Intelligent Systems for Digital Era (ISDE)**  
2024 <https://doi.org/10.1145/3605098>

**Special track on Intelligent Systems for Digital Era (ISDE) : editorial message**  
**Robal, Tarmo; Liiv, Innar; Kalibatiene, Diana; Matulevičius, Raimundas** SAC '24 : Proceedings of the 39th ACM/SIGAPP Symposium on Applied Computing, Avila, Spain, April 8-12, 2024 2024 / p. 652-653 <https://dl.acm.org/action/showFmPdf?doi=10.1145%2F3605098> [Article at Scopus](#)

**Tehisaru abil valmis tudengi magistritöö kahe nädalaga. „Raske on ette kujutada, et kirjutaksin ilma sellela nii pika teksti“**  
Orav, Anna Teele <https://ekspress.delfi.ee/artikkel/120385243/tehisaru-abil-valmis-tudengi-magistritoo-kahe-nadala-raske-on-ette-kujutada-et-kirjutaksin-ilma-sellela-nii-pika-teksti>

**Tehnikaülikooli suurim ambitsioon**  
**Liiv, Innar** Sirp 2020 / lk. 25 <https://www.sirp.ee/s1-artiklid/c21-teadus/tehnikaulikooli-suurim-ambitsioon/>  
[https://www.ester.ee/record=b1072938\\*est](https://www.ester.ee/record=b1072938*est)

**Towards information-theoretic visualization evaluation measure: a practical example for Bertin's matrices**  
**Liiv, Innar** Proceedings of the ACM CHI (ACM Conference on Human Factors in Computing Systems) 2010 Conference : April 10-11, 2010, Atlanta, GA, US 2010 <https://dl.acm.org/doi/10.1145/2110192.2110196>

**Uued inimesed ja positsioonid**  
**Tammet, Tanel; Uska, Riina; Laanearu, Janek; Tabri, Kristjan; Vendelin, Marko; Margus, Madis; Kindsigo, Merit; Talpsepp, Tõnn; Tähemaa, Toivo; Laos, Katrin; Liiv, Innar; Rüütmann, Tiia; Sarapuu, Külli; Kikkas, Kaido; Pachel, Karin** Mente et Manu



2022 / lk. 40-49 : fot [https://www.ester.ee/record=b1242496\\*est](https://www.ester.ee/record=b1242496*est)

**Uute mustrite avastamine järjestamise ja maatriksi ümberkorraldamisega : [autori doktoritööst]**

**Liiv, Innar** Inseneeria 2009 / 8(9), lk. 44-46 : ill [https://artiklid.elnet.ee/record=b1140684\\*est](https://artiklid.elnet.ee/record=b1140684*est)

**Valitsemine 2030 : riigivalitsemise ja e-riigi stsenaariumid**

Terk, Erik; **Liiv, Innar**; **Sarapuu, Külli**; Danilov, Tea 2018 [https://www.ester.ee/record=b5181431\\*est](https://www.ester.ee/record=b5181431*est)

**Visual matrix explorer for collaborative seriation**

**Liiv, Innar**; **Õpik, Rain**; **Übi, Jaan**; Stasko, John Wiley interdisciplinary reviews : computational statistics 2012 / p. 85-97

<https://www.deepdyve.com/lp/wiley/visual-matrix-explorer-for-collaborative-seriation-Mc5ryKrGod>

**Visualization and data mining method for inventory classification**

**Liiv, Innar** 2007 IEEE International Conference on Service Operations and Logistics, and Informatics : Philadelphia, USA, August 27-

29, 2007 2007 / p. 472-477 <https://ieeexplore.ieee.org/document/4383909>

**Visualization and structure analysis of legislative acts : a case study on the law of obligations**

**Liiv, Innar**; Vedešin, Anton; **Täks, Ermo** Proceedings of the 11th International Conference on Artificial Intelligence and Law

(ICAIL'07) : Standford University, June 4-8, 2007 2007 / p. 189-190 <http://innar.com/p189-liiv.pdf>

**Üleriigiline unistamisprojekt "Hakkab looma" annab Eestile ühise tulevikuvisioni**

Tust, Katrin tv3.ee 2025 <https://buduaar.tv3.ee/seltskonnauudised/eesti-elu/uleriigiline-unistamisprojekt-hakkab-looma-annab-eestile-uhise-tulevikuvisioni/>