

Analyzing Apache Storm as core for an event processing network model

Schulze, Christin; Gerner, Christian; Tyca, Matthias; Koschel, Arne; Pakosch, Anna; **Astrova, Irina** Intelligent systems and applications : proceedings of the 2021 Intelligent Systems Conference (IntelliSys). Volume 3 2024 / p. 397 - 410
https://doi.org/10.1007/978-3-031-47715-7_27 [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Cloud computing: serverless

Koschel, Arne; Bertram, Marvin; Bischof, Richard; Schulze, Kevin; Schaaf, Marc; **Astrova, Irina** 12th International Conference on Information, Intelligence, Systems & Applications (IISA), 12-14 July 2021 : proceedings 2021 / art. 21201275, 7 p. : ill
<https://doi.org/10.1109/IISA52424.2021.9555534>

Comparing modern build automation tools for an insurance company

Koschel, Arne; Tran, Kim Chi; Grunewald, Alexander; Lange, Moritz; Pakosch, Anna; **Astrova, Irina** SAC '23: Proceedings of the 38th ACM/SIGAPP Symposium on Applied Computing 2023 / p. 1650-1655 <https://doi.org/10.1145/3555776.357760>

Comparison of DBaaS Architectures

Astrova, Irina; Koschel, Arne; Eickemeyer, Chris; Offel, Norman 2018 9th International Conference on Information, Intelligence, Systems and Applications (IISA 2018) : Zakynthos, Greece, 23-25 July 2018 2018 / p. 1-5 : ill <https://doi.org/10.1109/IISA.2018.8633590>

DBaaS comparison : Amazon vs. Microsoft

Astrova, Irina; Koschel, Arne; Eickemeyer, Chris; Kersten, Jan; Offel, Norman International Conference on Information Society (i-Society 2017) 2017 / p. 15-21 <http://doi.org/10.23919/i-Society.2017.8354663>

Dealing with data streams: Complex event processing vs. data stream mining

Lange, Moritz; Koschel, Arne; **Astrova, Irina** Computational Science and Its Applications – ICCSA 2020 : 20th International Conference, Cagliari, Italy, July 1–4, 2020 : Proceedings, Part IV 2020 / p. 3-14 https://doi.org/10.1007/978-3-030-58811-3_1
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)

Development support for intelligent systems : test, evaluation, and analysis of microservices

Perbandt, Charline von; Tyca, Matthias; Koschel, Arne; **Astrova, Irina** Intelligent systems and applications : proceedings of the 2021 Intelligent Systems Conference (IntelliSys). Volume 1 2022 / p. 857-875 https://doi.org/10.1007/978-3-030-82193-7_58 [Conference proceedings at Scopus](#) [Article at Scopus](#)

Efficiency experiments on Hadoop and Giraph with PageRank

Koschel, Arne; Heine, Felix; **Astrova, Irina**; Korte, Fred; Rossow, Thomas; Stipkovic, Sebastian 24th Euromicro International Conference on Parallel, Distributed, and Network-Based Processing : PDP 2016 : 17-19 February 2016, Heraklion, Crete, Greece : proceedings 2016 / p. 328-331 : ill <https://doi.org/10.1109/PDP.2016.49>

Enhancing OSGi with asynchronous messaging

Astrova, Irina; Schaaf, Marc; Koschel, Arne; Ahlers, Volker JTRES '16 : proceedings of the 14th International Workshop on Java Technologies for Real-Time and Embedded Systems : Lugano, Switzerland, August 29 - September 02, 2016 2016 / [10] p. : ill
<https://doi.org/10.1145/2990509.2990513> [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Evaluating RuleCore as event processing network model

Astrova, Irina; Koschel, Arne; Kobert, Sebastian Proceedings of the 15th International Conference on Web Information Systems and Technologies, WEBIST 2019, Vienna, Austria, September 18-20, 2019. Vol. 1 2019 / p. 297–300 : ill
<https://doi.org/10.5220/0008192302970300>

Evaluating the RESTfulness of "APIs from the Rough"

Koschel, Arne; **Astrova, Irina**; Blankschyn, Maximilian Proceedings of the 15th International Conference on Web Information Systems and Technologies, WEBIST 2019, Vienna, Austria, September 18-20, 2019. Vol. 1 2019 / p. 281-288
<https://doi.org/10.5220/0008166802810288>

Evaluating time series database management systems for insurance company

Koschel, Arne; **Astrova, Irina**; Alsleben, Stephan-Tobias; Bellok, Jannis; Meyer, Niklas; Meyer, Sebastian 2022 13th International Conference on Information, Intelligence, Systems and Applications (IISA) : proceedings 2022 / 6 p. : ill
<https://doi.org/10.1109/IISA56318.2022.9904360>

Harnessing cloud scalability to hadoop clusters

Koschel, Arne; Heine, Felix; **Astrova, Irina** Information Systems 15th European, Mediterranean, and Middle Eastern Conference, EMCIS 2018 : Limassol, Cyprus, October 4–5, 2018 : proceedings 2019 / p. 59-71 https://doi.org/10.1007/978-3-030-11395-7_6
[Conference proceeding at Scopus](#) [Article at Scopus](#)

How the apriori algorithm can help to find semantic duplicates in ontology

Astrova, Irina; Koschel, Arne; Lee, Su Ling Knowledge-Based Software Engineering: 2020 : Proceedings of the 13th International Joint Conference on Knowledge-Based Software Engineering (JCKBSE 2020), Larnaca, Cyprus, August 24-26, 2020 2020 / p. 178-191 https://doi.org/10.1007/978-3-030-53949-8_16

How to select time series databases for an insurance company?

Astrova, Irina; Koschel, Arne; Alsleben, Stephan Tobias; Bellok, Jannis T.; Meyer, Niklas; Meyer, Sebastian; Pakosch, Anna 14th International Conference on Information, Intelligence, Systems and Applications, IISA 2023 2023 / 8 p.
<https://doi.org/10.1109/IISA59645.2023.10345871>

IaaS platforms : how secure are they?

Astrova, Irina; Koschel, Arne; Henke, Mats Lennart IEEE 30th International Conference on Advanced Information Networking and Applications Workshops : WAINA 2016 : 23-25 March 2016, Crans-Montana, Switzerland : proceedings 2016 / p. 843-848 : ill
<https://doi.org/10.1109/WAINA.2016.22>

Is Amazon Kinesis data analytics suitable as core for an event processing network model?

Koschel, Arne; **Astrova, Irina**; Pakosch, Anna; Gerner, Christian; Schulze, Christin; Tyca, Matthias Proceedings of the 16th International Conference on Agents and Artificial Intelligence - Volume 3: ICAART, 2024 / p. 1036 - 1043
<https://doi.org/10.5220/0012432800003636> [Conference proceedings at Scopus](#) [Article at Scopus](#)

A look at service meshes

Koschel, Arne; Bertram, Marvin; Bischof, Richard; Schulze, Kevin; Schaaf, Marc; **Astrova, Irina** 12th International Conference on Information, Intelligence, Systems & Applications (IISA), 12-14 July 2021 : proceedings 2021 / art. 9555536, 8 p
<https://doi.org/10.1109/IISA52424.2021.9555536>

Making the move to microservice architecture

Koschel, Arne; **Astrova, Irina**; Dötterl, Jeremias International Conference on Information Society (i-Society 2017) 2017 / p. 74-79 : ill
<http://doi.org/10.23919/i-Society.2017.8354675>

Modern build automation for an insurance company tool selection

Lange, Moritz; Tran, Kim Chi; Grunewald, Alexander; Koschel, Arne; Pakosch, Anna; **Astrova, Irina** Procedia computer science 2023 / p. 736-743 : ill <https://doi.org/10.1016/j.procs.2023.01.346> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Moving Hadoop to the Cloud for Big Data Analytics

Astrova, Irina; Koschel, Arne; Heine, Felix; **Kalja, Ahto** Databases and information systems X : selected papers from the thirteenth International Baltic Conference, DB&IS 2018 2019 / p. 195-209 <https://doi.org/10.3233/978-1-61499-941-6-195>
https://www.ester.ee/record=b5203991*est [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Offering Hadoop as a cloud service [Electronic resource]

Astrova, Irina; Koschel, Arne; Henke, Mats Lennart; Nahle, Hassan Proceedings of 2016 SAI Computing Conference : 13-15 July, 2016, London, United Kingdom 2016 / p. 589-595 : ill. [USB] <https://doi.org/10.1109/SAI.2016.7556041>

On requirements for event processing network models using business event modeling notation

Koschel, Arne; **Astrova, Irina**; Kobert, Sebastian; Naumann, Jan; Ruhe, Tobias; Starodubtsev, Oleg Intelligent Computing : Proceedings of the 2018 Computing Conference. Volume 1 Intelligent Computing 2019 / p. 756-762 https://doi.org/10.1007/978-3-030-01174-1_57 [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

On testing microservice systems

Koschel, Arne; **Astrova, Irina**; Bartels, Mirco; Helmers, Mark; Lyko, Marcel Proceedings of the Future Technologies Conference (FTC) 2020 ; vol. 3 2021 / p. 597-609 https://doi.org/10.1007/978-3-030-63092-8_40 [Conference Proceedings at Scopus](#) [Article at Scopus](#)

Performance benchmarking of NewSQL databases with Yahoo cloud serving benchmark

Astrova, Irina; Koschel, Arne; Wellermann, Nils; Klostermeyer, Philip Proceedings of the Future Technologies Conference (FTC) 2020 ; vol. 2 2021 / p. 271-281 https://doi.org/10.1007/978-3-030-63089-8_17 [Conference proceedings at Scopus](#) [Article at Scopus](#)

A private cloud for data mining education

Koschel, Arne; Heine, Felix; **Astrova, Irina**; **Astrov, Igor** 2018 Sixth International Conference on Enterprise Systems : ES 2018 : 1-2 October 2018, Limassol, Cyprus : proceedings 2018 / p. 129-133 : ill <http://doi.org/10.1109/ES.2018.00027>

RESTfulness of APIs in the wild

Koschel, Arne; Blankschyn, Maximilian; Schulze, Kevin; Schöner, Dominuk; **Astrova, Irina**; **Astrov, Igor** 2019 IEEE World Congress on Services : IEEE SERVICES 2019, 8-13 July, 2019 Milan, Italy : proceedings 2019 / art. 8817208 ; p. 382-383 : ill
<https://doi.org/10.1109/SERVICES.2019.00114>

Scalable Hadoop-based infrastructure for big data analytics

Astrova, Irina; Koschel, Arne; Heine, Felix; **Kalja, Ahto** Databases and Information Systems : 13th International Baltic Conference, DB&IS 2018, Trakai, Lithuania, July 1-4, 2018 : proceedings 2018 / p. 233-242 https://doi.org/10.1007/978-3-319-97571-9_19
[Conference proceedings at Scopus](#) [Article at Scopus](#)

Serverless, FaaS and why organizations need them

Astrova, Irina; Koschel, Arne; Schaaf, Marc; Klassen, Samuel; Jdiya, Kerim Intelligent decision technologies 2021 / p. 825-838

<https://doi.org/10.3233/IDT-210194> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Using market basket analysis to find semantic duplicates in ontology

Astrova, Irina; Koschel, Arne; Lee, Su Ling Computational Science and Its Applications – ICCSA 2020 : 20th International Conference, Cagliari, Italy, July 1–4, 2020 : Proceedings, Part IV 2020 / p. 197-211 https://doi.org/10.1007/978-3-030-58811-3_14
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Conference proceedings at WOS](#) [Article at WOS](#)