

Attribute evaluation on attack trees with incomplete information : a preprint

Buldas, Ahto; Gadyatskaya, Olga; **Lenin, Aleksandr**; Mauw, Sjouke; Trujillo-Rasua, Roland arXiv.org 2019 / 21 p. : ill <http://arxiv.org/abs/1812.10754>

Bicategories in univalent foundations

Ahrens, Benedikt; Frumin, Dan; Maggesi, Marco; **Veltri, Niccolo**; Weide, Niels van der arXiv.org 2020 / 32 p <https://doi.org/10.4230/LIPIcs.FSCD.2019.5>

CAC 2.0 : a corrupt and correct logic locking technique resilient to structural analysis attacks

Aksoy, Levent; Yasin, Muhammad; **Pagliarini, Samuel Nascimento** arXiv.org 2024 / 6 p. : ill <https://doi.org/10.48550/arXiv.2401.07142>

CLFT : camera-LiDAR fusion transformer for semantic segmentation in autonomous driving : preprint

Gu, Junyi; Bellone, Mauro; Pivonka, Tomas; **Sell, Raivo** arXiv.org 2024 / 12 p. : ill <https://doi.org/10.48550/arXiv.2404.17793>

Collages of string diagrams

Braithwaite, Dylan; **Roman Garcia, Mario** arXiv.org 2023 / p. 39-53 : ill <https://doi.org/10.48550/arXiv.2305.02675>

Comparison of Bayesian and particle swarm algorithms for hyperparameter optimisation in machine learning applications in high energy physics : [preprint]

Tani, Laurits; Veelken, Christian arXiv.org 2024 / 8 p. : ill <https://doi.org/10.48550/arXiv.2201.06809>

Context-Free Languages of String Diagrams

Earnshaw, Matthew David; Román, Mario arXiv.org 2024 / 24 p. : ill <https://doi.org/10.48550/arXiv.2404.10653>

Cornering optics : preprint

Boisseau, Guillaume; **Nester, Chad Mitchell**; **Roman Garcia, Mario** arXiv.org 2022 <https://doi.org/10.48550/arXiv.2205.00842>

DeepVigor+: Scalable and Accurate Semi-Analytical Fault Resilience Analysis for Deep Neural Networks

Ahmadilivani, Mohammad Hasan; Raik, Jaan; Daneshtalab, Masoud; **Jenihhin, Maksim** arXiv.org 2024 / 14 p. : ill <https://doi.org/10.48550/arXiv.2410.15742>

Detecting anisotropic inclusions through EIT [Online resource]

Cristina, Jan; **Päivärinta, Lassi Juhani** arXiv.org 2016 / p. 1-18 <https://arxiv.org/abs/1511.01233v2>

Diagrammatic algebra of first order logic : [preprint]

Bonchi, Filippo; Di Giorgio, Alessandro; **Haydon, Nathan Joseph**; **Sobocinski, Pawel Maria** arXiv.org 2024 / 34 p. : ill <https://doi.org/10.48550/arXiv.2401.07055>

Differential 2-rigs

Loregian, Fosco; Trimble, Todd arXiv.org 2022 / 16 p. : ill <https://doi.org/10.48550/arXiv.2103.00938>
https://msp.cis.strath.ac.uk/act2022/papers/ACT2022_paper_4413.pdf

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>

Early RTL analysis for SCA vulnerability in fuzzy extractors of memory-based PUF enabled devices

Lai, Xinhui; **Jenihhin, Maksim**; Selims, Georgios arXiv.org 2020 / 6 p. : ill <https://doi.org/10.48550/arXiv.2008.08409>
<https://arxiv.org/abs/2008.08409>

Enhancing D-bar reconstructions for electrical impedance tomography with conformal maps [Online resource]

Hyvönen, Nuutti; **Päivärinta, Lassi Juhani**; Tamminen, Janne Pertti Olavi arXiv.org 2017 / p. 1-27 : ill <https://arxiv.org/abs/1702.07531v1>

Escrows are optics

Genovese, Fabrizio; Loregian, Fosco; **Palombi, Daniele** arXiv.org 2022 / 16 p. : ill <https://doi.org/10.48550/arXiv.2105.10028>
<https://arxiv.org/pdf/2105.10028.pdf>

Evolutionary algorithms for hyperparameter optimization in machine learning for application in high energy physics : [preprint]

Tani, Laurits; Rand, Diana; Veelken, Christian; Kadastik, Mario arXiv.org 2021 / 11 p. : ill <https://doi.org/10.48550/arXiv.2011.04434>

Extending automated deduction for commonsense reasoning

Tammet, Tanel arXiv.org 2020 / p. 1-19 <https://arxiv.org/pdf/2003.13159.pdf> <https://arxiv.org/abs/2003.13159>

Fekete's lemma for componentwise subadditive functions of two or more real variables

Capobianco, Silvio arXiv.org 2019 / 20 p. : ill <https://arxiv.org/abs/1904.10507>

Fibration linguistics (FibLang) : language acquisition

Genovese, Fabrizio; **Loregian, Fosco**; Puca, Caterina arXiv.org 2022 / p. 1-16 : ill <https://doi.org/10.48550/arXiv.2207.06765>
<https://arxiv.org/pdf/2207.06765.pdf>

Fibrational linguistics (FibLang) : first concepts

Genovese, Fabrizio; **Loregian, Fosco**; Puca, Caterina arXiv.org 2022 / 22 p. : ill <https://doi.org/10.48550/arXiv.2201.01136>
<https://arxiv.org/pdf/2201.01136.pdf>

Fractional Brownian motion and asymptotic Bayesian estimation [Online resource]

Päivärinta, Lassi Juhani; Piironen, Petteri arXiv.org 2016 / p. 1-55 : ill <https://arxiv.org/abs/1606.07576v1>

A framework for modelling, verification and transformation of concurrent imperative programs

Bortin, Maksym arXiv.org 2020 / 57 p <https://arxiv.org/abs/2007.02261> <https://doi.org/10.48550/arXiv.2007.02261>

From an attention economy to an ecology of attending. A manifesto

Bombaerts, Gunter; Hannes, Tom; Adam, Martin; Aloisi, Alessandra; Anderson, Joel; Berger, Lawrence; Bettera, Stefano Davide; Campo, Enrico; Candiotti, Laura; Panizza, Silvia Caprioglio; **Drechsler, Wolfgang**; **Shakya, Shobhit** arXiv.org 2024 / 21 p
<https://doi.org/10.48550/arXiv.2410.17421>

FuzzSense : Towards A Modular Fuzzing Framework for Autonomous Driving Software

Roberts, Andrew James; Teply, Lorenz; **Pese, Mert D.**; Maennel, Olaf Manuel; Hamad, Mohammad; Steinhorst, Sebastian arXiv.org 2025 / arXiv:2504.10717, 6 p. : ill <https://doi.org/10.48550/arXiv.2504.10717>

Holistic approach for Fault-Tolerant Network-on-Chip based many-core systems [Online resource]

Azad, Siavoosh Payandeh; Niazmand, Behrad; Raik, Jaan; Jervan, Gert; Hollstein, Thomas arXiv.org 2016 / [8] p. : ill

Holistic IJTAG-based external and internal fault monitoring in UAVs

Ahmed, Foisal; Jenihhin, Maksim arXiv.org 2023 / 6 p. : ill <https://doi.org/10.48550/arXiv.2303.01816>

Impact of orientation on the bias of SRAM-based PUFs

Abideen, Zain Ul; Wang, Rui; **Perez, Tiago Diadami**; Schrijen, Geert-Jan; **Pagliarini, Samuel Nascimento** arXiv.org 2023 / 7 p. : ill <https://doi.org/10.48550/arXiv.2308.06730>

Interaction laws of monads and comonads

Katsumata, Shin-ya; Rivas, Exequiel; **Uustalu, Tarmo** arXiv.org 2019 / 28 p. : ill <https://arxiv.org/abs/1912.13477>

Inverse acoustic scattering problem in half-space with anisotropic random impedance [Online resource]

Helin, Tapio; Lassas, Matti; **Päivärinta, Lassi Juhani** arXiv.org 2014 / p. 1-26 <https://arxiv.org/abs/1407.2481v2>

Inverse source problem with a posteriori boundary measurement for fractional diffusion equations

Janno, Jaan; Kian, Yavar arXiv.org 2022 / 17 p <https://doi.org/10.48550/arXiv.2207.06468>

KRATT : QBF-assisted removal and structural analysis attack against logic locking

Aksoy, Levent; Yasin, Muhammad; **Pagliarini, Samuel Nascimento** arXiv.org 2023 / 7 p. : ill <https://doi.org/10.48550/arXiv.2311.05982>

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>

Optics for premonoidal categories

Hefford, James; **Roman Garcia, Mario** arXiv.org 2023 / p. 152-171 : ill <https://doi.org/10.48550/arXiv.2305.02906>

An overview of FPGA-inspired obfuscation techniques

Abideen, Zain Ul; Gokulanathan, Sumathi; **Aljafar, Muayad J.**; **Pagliarini, Samuel Nascimento** arXiv.org 2023 / 30 p. : ill <https://doi.org/10.48550/arXiv.2305.15999>

Palatini F (R, X) : a new framework for inflationary attractors

Dioguardi, Christian; Racioppi, Antonio arXiv.org 2023 / 6 p. : ill <https://doi.org/10.48550/arXiv.2307.02963>

Palatini Linear Attractors Are Back in ACTION

Dioguardi, Christian; Karam, Alexandros arXiv.org 2025 / 5 p <https://doi.org/10.48550/arXiv.2504.12937> <https://arxiv.org/abs/2504.12937>

Preventing distillation-based attacks on Neural Network IP

Grailoo, Mahdiah; Abideen, Zain Ul; Leier, Mairo; Pagliarini, Samuel Nascimento arXiv.org 2022 / 7 p. : ill <https://doi.org/10.48550/arXiv.2204.00292>

ProAct: Progressive Training for Hybrid Clipped Activation Function to Enhance Resilience of DNNs

Mousavi, Seyedhamidreza; Ahmadilivani, Mohammad Hasan; Raik, Jaan; Jenihhin, Maksim; Daneshtalab, Masoud arXiv.org 2024 / 12 p. : ill <https://doi.org/10.48550/arXiv.2406.06313>

The produoidal algebra of process decomposition

Earnshaw, Matthew David; Hefford, James; Roman Garcia, Mario arXiv.org 2023 / 56 p. : ill <https://doi.org/10.48550/arXiv.2301.11867>

Profunctor optics : a categorical update

Clarke, Bryce James; Elkins, Derek; Gibbons, Jeremy; Loregian, Fosco; Milewski, Bartosz; Pillmore, Emily; Roman Garcia, Mario arXiv.org 2022 / 45 p <https://doi.org/10.48550/arXiv.2001.07488>

Promonads and string diagrams for effectful categories : preprint

Roman Garcia, Mario arXiv.org 2022 <https://doi.org/10.48550/arXiv.2205.07664>

RESAA: A Removal and Structural Analysis Attack Against Compound Logic Locking : [preprint]

Almeida, Felipe; Aksoy, Levent; Pagliarini, Samuel Nascimento arXiv.org 2025 / 12 p. : ill <https://doi.org/10.48550/arXiv.2409.16959>

SALSy : security-aware layout synthesis

Eslami, Mohammad; Perez, Tiago Diadami; Pagliarini, Samuel Nascimento arXiv.org 2024 / 13 p. : ill <https://doi.org/10.48550/arXiv.2308.06201>

SARS-CoV-2 Coronavirus data compression benchmark

Liiv, Innar arXiv.org 2020 / 6 p. <https://arxiv.org/abs/2012.12013>

SCARF : securing chips with a robust framework against fabrication-time hardware Trojans : preprint

Eslami, Mohammad; Ghasempouri, Tara; Pagliarini, Samuel Nascimento arXiv.org 2024 / 14 p. : ill <https://doi.org/10.48550/arXiv.2402.12162>

Search for Higgs boson pairs decaying to WW^*WW^* , $WW^*\pi$, and $\pi\pi\pi$ in proton-proton collisions at $\sqrt{s} = 13$ TeV : [preprint]

Ehataht, Karl; Kadastik, Mario; Raidal, Martti; Tani, Laurits; Veelken, Christian arXiv.org 2023 / 62 p. : ill <https://doi.org/10.48550/arXiv.2206.10268>

Strictly convex corners scatter [Online resource]

Päivärinta, Lassi Juhani; Salo, Mikko; Vesalainen, Esa V. arXiv.org 2014 / p. 1-27 <https://arxiv.org/abs/1404.2513v2>

String diagrammatic electrical circuit theory

Boisseau, Guillaume; Sobocinski, Pawel Maria arXiv.org 2022 / p. 178-191 : ill <https://doi.org/10.4204/EPTCS.372.13> <https://cgi.cse.unsw.edu.au/~eptcs/paper.cgi?ACT2021.13> Conference Proceedings at Scopus Article at Scopus Article at WOS

A systematic study of lattice-based NIST PQC algorithms : from reference implementations to hardware accelerators

Imran, Malik; Abideen, Zain Ul; Pagliarini, Samuel Nascimento arXiv.org 2020 / 36 p. : ill

Tau lepton identification and reconstruction : a new frontier for jet-tagging ML algorithms : [preprint]

Lange, Thomas; Nandan, Saswati; Pata, Joosep; Tani, Laurits; Veelken, Christian arXiv.org 2023 / 22 p. : ill <https://doi.org/10.48550/arXiv.2307.07747>

ULTRA : a data-driven approach for recommending team formation in response to proposal calls

Srivastava, Biplav; Koppel, Tarmo; Shah, Ronak arXiv.org 2022 / 7 p <https://doi.org/10.48550/arXiv.2201.05646>

A version of the simplex method for solving linear systems of inequalities and linear programming problems

Übi, Jaan; Übi, Evald arXiv.org 2023 / 9 p <https://doi.org/10.48550/arXiv.2305.03730>

Why quantum state verification cannot be both efficient and secure : a categorical approach

Wiesner, Fabian; Chaoui, Ziad; Kessler, Diana-Maria; Pappa, Anna; Karvonen, Martti arXiv.org 2024 / 36 p <https://doi.org/10.48550/arXiv.2411.04767>