

Abrasiivosaakeste kiirendi modifitseeritud variant

Anvelt, I.; Kann, K.; Kriisa, R.; Kleis, Ilmar; Pappel, Toivo XXIX vabariiklik üliõpilaste teaduslik- tehniline konverents 30. märtsist - 1. aprillini 1977 : ettekannete teesid 1977 / lk. 80 https://www.ester.ee/record=b2449987*est

AdAM: Adaptive Approximate Multiplier for Fault Tolerance in DNN Accelerators

Taheri, Mahdi; Cherezova, Natalia; Nazari, Samira; Azarpeyvand, Ali; Ghasempouri, Tara; Daneshtalab, Masoud; Raik, Jaan; Jenihhin, Maksim IEEE transactions on device and materials reliability 2024 / p. 66-75 : ill <https://doi.org/10.1109/TDMR.2024.3523386>

AdAM: adaptive fault-tolerant approximate multiplier for edge DNN accelerators

Taheri, Mahdi; Cherezova, Natalia; Nazari, Samira; Rafiq, Ahsan; Azarpeyvand, Ali; Ghasempouri, Tara; Daneshtalab, Masoud; Raik, Jaan; Jenihhin, Maksim 2024 IEEE European Test Symposium (ETS): ETS 2024 : May 20-24, 2024, The Hague, Netherlands : proceedings 2024 <https://doi.org/10.1109/ETS61313.2024.10567161> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

An Accelerator-based architecture utilizing an efficient memory link for modern computational requirements

Yousefzadeh, Saba; Basharkhah, Katayoon; Raik, Jaan; Jenihhin, Maksim 2019 IEEE East-West Design & Test Symposium (EWDTS) 2019 / 6 p. : ill <https://doi.org/10.1109/EWDTS.2019.8884481>

Doubly charged Higgs boson decays and implications on neutrino physics = Kahekordse laenguga Higgsi bosoni lagunemiste analüüs ja selle mõju neutriinofüüsikale

Kadastik, Mario 2008 https://www.ester.ee/record=b2424087*est

Eestlased jahivad kiirendis seninägematut aineosakest : [Euroopa Tuumafüüsika Keskuses CERNis, osalevad ka TTÜ üliõpilased]

Selder, Sergo Eesti Päevaleht 2005 / lk. 3-4 : fot

Exploration of Activation Fault Reliability in Quantized Systolic Array-Based DNN Accelerators

Taheri, Mahdi; Cherezova, Natalia; Ansari, Mohammad Saeed; Jenihhin, Maksim; Mahani, Ali; Daneshtalab, Masoud; Raik, Jaan 25th International Symposium on Quality Electronic Design (ISQED) 2024 / 8 p. : ill <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10528372> <https://doi.org/10.1109/ISQED60706.2024.10528372> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

FORTUNE: A Negative Memory Overhead Hardware-Agnostic Fault Tolerance Technique in DNNs

Nazari, Samira; Taheri, Mahdi; Azarpeyvand, Ali; Afsharchi, Mohsen; Ghasempouri, Tara; Herglotz, Christian; Daneshtalab, Masoud; Jenihhin, Maksim 2024 IEEE 33rd Asian Test Symposium (ATS) 2024 / p. 1-6 : ill <https://doi.org/10.1109/ATS64447.2024.10915463> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

G-GPU : a fully-automated generator of GPU-like ASIC accelerators

Perez, Tiago Diadami; Gonçalves, Marcio M.; Gobatto, Leonardo; Brandalero, Marcelo; Azambuja, Jose Rodrigo; Pagliarini, Samuel Nascimento 2022 Design, Automation & Test in Europe Conference & Exhibition (DATE 2022) : proceedings 2022 / p. 544 - 547 <https://doi.org/10.23919/DATE54114.2022.9774758>

Heterogeneous Approximation of DNN HW Accelerators based on Channels Vulnerability

Cherezova, Natalia; Pappalardo, Salvatore; Taheri, Mahdi; Ahmadilivani, Mohammad Hasan; Deveautour, Bastien; Bosio, Alberto; Raik, Jaan; Jenihhin, Maksim 2024 IFIP/IEEE 32nd International Conference on Very Large Scale Integration (VLSI-SoC) 2024 / 4 p. : ill <https://doi.org/10.1109/VLSI-SoC62099.2024.10767798> [Conference proceedings at Scopus](#) [Article at Scopus](#)

High-performance hardware accelerators for sorting and managing priorities

Sklyarov, Valery; Skliarova, Ioulia; Mihhailov, Dmitri; Sudnitsõn, Aleksander Proceedings of the 2011 IEEE Symposium on Design and Diagnostics of Electronic Circuits and Systems : April 13-15, 2011, Gottbus, Germany 2011 / p. 313-318 : ill <https://ieeexplore.ieee.org/document/5783103>

High-speed design of postquantum cryptography with optimized hashing and multiplication

Imran, Malik; Aikata, Aikata; Roy, Sujoy Sinha; Pagliarini, Samuel Nascimento IEEE Transactions on Circuits and Systems II : Express Briefs 2023 / p. 847-851 : ill <https://doi.org/10.1109/TCSII.2023.3273821> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

NeuroPIM: flexible neural accelerator for processing-in-memory architectures

Bidgoli, Ali Monavari; Fattahi, Sepideh; Rezaei, Seyyed Hossein Seyyedaghaei; Modarressi, Mehdi; Daneshtalab, Masoud 2023 26th International Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS) : May 3-5, 2023, Tallin, Estonia : proceedings 2023 / p. 51-56 <https://doi.org/10.1109/DDECS57882.2023.10139567>

SAFFIRA: a Framework for Assessing the Reliability of Systolic-Array-Based DNN Accelerators

Taheri, Mahdi; Daneshtalab, Masoud; Raik, Jaan; Jenihhin, Maksim; Pappalardo, Salvatore; Jimenez, Paul; Deveautour, Bastien; Bosio, Alberto 2024 27th International Symposium on Design & Diagnostics of Electronic Circuits & Systems (DDECS) : 03-05 April 2024, Kielce, Poland 2024 / p. 19-24 : ill <https://doi.org/10.1109/DDECS60919.2024.10508925>

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

Tumasyan, A.; Adam, W.; Andrejkovic, J. W.; Ehatäht, Karl; Tani, Laurits Journal of high energy physics 2023 / art. 95, 65 p. : ill
[https://doi.org/10.1007/JHEP07\(2023\)095](https://doi.org/10.1007/JHEP07(2023)095)

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]

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

Simulation of RF noise propagation to relativistic electron beam properties in a linear accelerator

Maalberg, Andrei; Kuntzsch, Michael; Petlenkov, Eduard IFAC-PapersOnLine 2020 / p. 348-354
<https://doi.org/10.1016/j.ifacol.2020.12.184> Conference proceedings at Scopus Article at Scopus Article at WOS

Special session: reliability assessment recipes for DNN accelerators

Ahmadilivani, Mohammad Hasan; Bosio, Alberto; Deveautour, Bastien; Dos Santos, Fernando Fernandes; Guerrero-Balaguera, Juan-David; Jenihhin, Maksim; Kritikakou, Angeliki; Sierra, Robert Limas; Raik, Jaan; Taheri, Mahdi 42nd IEEE VLSI Test Symposium, VTS 2024 2024 / 11 p. : ill <https://doi.org/10.1109/VTS60656.2024.10538707> Conference proceedings at Scopus Article at Scopus Article at WOS

Understanding fault-tolerance vulnerabilities in advanced SoC FPGAs for critical applications

Cherezova, Natalia; Shubin, Konstantin; Jenihhin, Maksim; Jutman, Artur Microelectronics reliability 2023 / art. 115010, 10 p. : ill
<https://doi.org/10.1016/j.microrel.2023.115010> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Высокоэффективный универсальный центробежный ускоритель

Kleis, Ilmar; Pallase, Ado XXV студенческая научно-техническая конференция вузов Прибалтийских республик, Белорусской ССР и Молдавской ССР, 21-23 апреля 1981 года : тезисы докладов. Том 2, Автоматика. Энергетика. Механика. Химия 1981 / с. 115 https://www.ester.ee/record=b1322629*est

Приспособление к центробежному ускорителю ЦУК-3М для испытания материалов на абразивный износ с добавкой жидкости

Särgava, Paul; Valdma, Leo Износ, усталость и коррозия металлов : сборник статей. 6 1973 / с. 55-63 : илл
https://www.ester.ee/record=b2190621*est <https://digikogu.taltech.ee/et/Item/b72113fb-37ed-41e2-b029-bf4661300cc1>

Центробежный ускоритель ЦУК-3М для определения относительной износостойкости материалов при абразивной эрозии

Kleis, Ilmar Износ, усталость и коррозия металлов : сборник статей. 4 1970 / с. 23-33 : илл
https://www.ester.ee/record=b2189975*est <https://digikogu.taltech.ee/et/Item/08de6dd6-c065-4fa4-8684-9b41e91f1bd2/>