

AdAM: Adaptive Approximate Multiplier for Fault Tolerance in DNN Accelerators

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

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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](#)

PATROL: an evolutionary Approach to Automatic Test Pattern Generation for hardware TROjan detection leveraging PSO-GA hybrid techniques

Hosseini, Mostafa; **Azarpeyvand, Ali**; **Ghasempouri, Tara** Proceedings of the 2024 IEEE 33rd Asian Test Symposium : ATS 2024 : Ahmedabad, India, 17-20 December 2024 2024 / 6 p. <https://doi.org/10.1109/ATS64447.2024.10915294> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Zero-memory-overhead clipping-based fault tolerance for LSTM deep neural networks

Parcekani, Bahram; Nazari, Samira; Ahmadilivani, Mohammad Hasan; **Azarpeyvand, Ali**; Raik, Jaan; **Ghasempouri, Tara**; **Daneshtalab, Masoud** 37th IEEE International Symposium on Defect and Fault Tolerance in VLSI and Nanotechnology Systems, Harwell, Oxfordshire, Didcot, UK, October 8th - 10th, 2024 2024 / 4 p. : ill <https://doi.org/10.1109/DFT63277.2024.10753533> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)