Yarib Israel Nevarez Esparza List of Scientific Publications

December 2, 2023

Journal Articles

- Yarib Nevarez, David Rotermund, Klaus R Pawelzik, and Alberto Garcia-Ortiz, "Accelerating Spike-by-Spike Neural Networks on FPGA With Hybrid Custom Floating-Point and Logarithmic Dot-Product Approximation," IEEE Access, vol. 9, pp. 80603–80620, May 2021, doi: 10.1109/AC-CESS.2021.3085216.
- Yarib Nevarez, Andreas Beering, Amir Najafi, Ardalan Najafi, Wanli Yu, Yizhi Chen, Karl-Ludwig Krieger, and Alberto Garcia-Ortiz, "CNN Sensor Analytics With Hybrid-Float6 Quantization on Low-Power Embedded FPGAs," IEEE Access, vol. 11, pp. 4852–4868, January 2023, doi: 10.1109/ACCESS.2023.3235866.

Conference Proceedings

- Yarib Nevarez, Alberto Garcia-Ortiz, David Rotermund, and Klaus R Pawelzik, "Accelerator framework of spike-by-spike neural networks for inference and incremental learning in embedded systems," 2020 9th International Conference on Modern Circuits and Systems Technologies (MO-CAST), Bremen, 2020, pp. 1–5, doi: 10.1109/MOCAST49295.2020.9200288.
- 4. Wanli Yu, Ardalan Najafi, **Yarib Nevarez**, Yanqiu Huang and Alberto Garcia-Ortiz, "TAAC: Task Allocation Meets Approximate Computing for Internet of Things," 2020 IEEE International Symposium on Circuits and Systems (ISCAS), Sevilla, 2020, pp. 1-5, doi: 10.1109/IS-CAS45731.2020.9180895.
- Amir Najafi, Ardalan Najafi, Yarib Nevarez and Alberto Garcia-Ortiz, "Learning-Based On-Chip Parallel Interconnect Delay Estimation," 2022 11th International Conference on Modern Circuits and Systems Technologies (MOCAST), Bremen, 2022, pp. 1–5, doi: 10.1109/MOCAST49295.2020.9200288.

- 6. Yizhi Chen, Yarib Nevarez, Zhonghai Lu, and Alberto Garcia-Ortiz, "Accelerating Non-Negative Matrix Factorization on Embedded FPGA with Hybrid Logarithmic Dot-Product Approximation," 2022 IEEE 15th International Symposium on Embedded Multicore/Many-core Systems-on-Chip (MCSoC), Malaysia, 2022, pp. 239–246, doi: 10.1109/MCSoC57363.2022.00070.
- Ardalan Najafi, Wanli Yu, Yarib Nevarez, Amir Najafi, Andreas Beering, Karl-Ludwig Krieger, and Alberto Garcia-Ortiz, "Acoustic Emission Source Localization using Approximate Discrete Wavelet Transform," 2023 12th International Conference on Modern Circuits and Systems Technologies (MOCAST), Bremen, 2023, pp. 1–5, doi: 10.1109/MOCAST57943.2023.10176952.