System-level design for efficient execution of CNNs at the edge
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List of Publications

Journal Articles

- Svetlana Minakova and Todor Stefanov. "Memory-Throughput Trade-off for CNN-based Applications at the Edge". Accepted for publication in ACM Transactions on Design Automation of Electronic Systems (TODAES), March 2022.


Peer-Reviewed Conference Proceedings


- Svetlana Minakova, Erqian Tang, Todor Stefanov. "Combining Task- and Data-level Parallelism for High-Throughput CNN Inference on Embedded CPUs-GPUs MPSoCs". In Proceedings of the 20th International Conference on Embedded Computer Systems: Architectures, Modeling and


Svetlana Minakova was born on January 31, 1993 in Ryazan, Russian Federation. She obtained her B.Sc. degree in informatics and computer engineering from Bauman Moscow State Technical University, Moscow, Russian Federation, in 2015 and the M.Sc. degree in informatics and computer engineering from Bauman Moscow State Technical University, Moscow, Russian Federation, in 2017. In January 2018 she joined the Leiden Embedded Research Center (LERC), part of the Leiden Institute of Advanced Computer Science (LIACS) at Leiden University, as a Ph.D. candidate. Her research work, which resulted in this thesis, has received funding from the European Unions Horizon 2020 Research and Innovation project under grant agreement No. 780788. Besides her work as a researcher, she has been teaching assistant for courses such as Digital Systems Design and Embedded Systems and Software. Since September 2022 she has been working as an Applied AI/ML Scientist at Signify, The Netherlands.
My PhD study comes to an end, and what a journey it’s been! I have learned much, visited many places I’ve never been before and met many amazing people. In this section, I would like to express my gratitude to everyone who was beside me throughout my PhD journey.

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