

Simon Holmbacka. PhD – 10 Most important publications

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THESIS

Simon Holmbacka: *Energy Aware Software for Many-Core Systems*, Faculty of Science and Engineering, Åbo Akademi University, 2015, Turku, Finland

Simon Holmbacka, Jörg Keller *Workload Type-Aware Scheduling on big.LITTLE Platforms* Proceedings of the 17th International Conference on Algorithms and Architectures on Parallel Processing, 2017, Helsinki, Finland

Simon Holmbacka, Dražen Lučanin, Ilia Pietri, Ivona Brandic, Johan Lilius, Rizos Sakellariou: *Performance-Based Pricing in Multi-Core Geo-Distributed Cloud Computing*, IEEE Transactions on Cloud Computing, IEEE 2016

Simon Holmbacka, Jörg Keller, Patrick Eitschberger, Johan Lilius: *Accurate Energy Modeling for Many-Core Static Schedules with Streaming Applications*, Microprocessors and Microsystems, Elsevier, 2016

Simon Holmbacka, Enida Sheme, Sébastien Lafond, Neki Frasheri *Geographical Competitiveness for Powering Datacenters with Renewable Energy* Proceedings of the Third International Workshop on Sustainable Ultrascale Computing Systems (NESUS 2016) Sofia, Bulgaria

Simon Holmbacka, Robert Müller: *epEBench: True Energy Benchmark*, 25th Euromicro International Conference on Parallel, Distributed and Network-Based Processing, 2016, St Petersburg, Russia

Simon Holmbacka, Erwan Nogues, Maxime Pelcat, Sébastien Lafond, Daniel Menard, Johan Lilius: *Energy-Awareness and Performance Management with Parallel Dataflow Applications*, The Journal Signal Processing Systems. Springer US, 2015

Simon Holmbacka, Sébastien Lafond, Johan Lilius: *Performance Monitor Based Power Management for big.LITTLE Platforms* HiPEAC Workshop on Energy Efficiency with Heterogeneous Computing, 2015, Amsterdam, Netherlands

Simon Holmbacka, Erwan Nogues, Maxime Pelcat, Sébastien Lafond, Johan Lilius: *Energy Efficiency and Performance Management of Parallel Dataflow Applications* [BEST PAPER] The 2014 Conference on Design & Architectures for Signal & Image Processing, 2014, Madrid, Spain

Simon Holmbacka Fredric Hällis, Wictor Lund, Sébastien Lafond and Johan Lilius: *Energy and Power Management, Measurement and Analysis for Multi-Core Processors* TUCS Technical Reports 1117, 2014, Turku Centre for Computer Science