

Making Taboo Subject of the most important Method to battle against the Climate Disaster

Why do FPGAs not appear in the Media?

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The worldwide highest CO2 emission comes from electric power stations. Gigantic is the electricity consumption of all kinds of computer systems, like millions of huge data stations (often larger than a football stadium) [8] and super computers and enormous amounts of embedded systems as well as billions of PCs up to zillions of other portable devices. A gigantic consumer of electricity is the internet [5]. Extremely huge numbers of data centers are running here – causing a gigantic electricity consumption. Also see the paper (sorry, in German language): "**Bitcoin-Technologie ist ein fataler Klimakiller**" [7].

One of the most important methods to battle against the climate disaster is the **FPGA** application for massively reducing electricity consumption of computers by several orders of magnitude [1] [9] [10]. First FPGAs came to the market already in 1984. More than 5000 conference series and workshop series are related to FPGAs [2]. We urgently need the promotion of developing a method with minimal changeover costs.

The media completely hide this extremely efficient method to battle against the climate-disaster (an exceptio[n]: [3]). Has a power station lobby has created this taboo? Mrs. Brigitte Knopf from the Mercator Research Institute on Global Commons and Climate Change (MCC) proposes a CO2 emission tax [6]. This makes technologies like wind or solar more competitive. A similar tax could also battle against the FPGA taboo. Probably the application of FPGAs-is not at all a topic area within climate conferences. Who knows this better than me?

Literature: (also, see here: http://hartenstein.de/FPGA_PROGRAMMER_QUALIFICATIONS.pdf)

[1] <http://hartenstein.de/#KKddl>

[2] <http://hartenstein.de/FPGAconf.html#XTRM>

[3] <http://www.hartenstein.de/BNN-Hartenstein-2010.jpg>

[4] <http://hartenstein.de/publications/CS.pdf>

[5] <https://www.zdf.de/dokumentation/planet-e/planet-e-stromfresser-internet-100.html>

[6] <https://www.zeit.de/wissen/umwelt/2018-12/klimawandel-erderwaermung-co2-steuer-fleischkonsum-umweltschutz>

[7] http://www.sonnenseite.com/de/wissenschaft/bitcoin-technologie-ist-ein-fataler-klimakiller.html?utm_source=%3A%3A%20Sonnenseite%20Newsletter%2003.%20November%202018%20%3A%3A&utm_medium=E-Mail&utm_campaign=Newsletter

[8] http://www.fpl.uni-kl.de/Data_station_images_English.pdf

[9] <http://xputers.informatik.uni-kl.de/staff/hartenstein/Speedup-Factors>

[10] <http://hartenstein.de/DPLA.html>

Why is this massively important area still a taboo for the media? Could it be, that this is organized by a power station lobby? Do you have an idea, how this taboo phenomenon within media could be defeated?

Can we find a talented journalist? Very, very important: Who has a good idea, how to briefly illustrate the effect of an FPGA to an absolutely nonprofessional layman? With what comparison could we illustrate the functioning of an FPGA?