2023 Deep Learning Hardware 설계 경진대회

Submission guideline

1. Code

1.1. Quantization and reference software code: to check mAP

- Your quantization code (C/Python)

- README: Briefly explain how to run the code.

1.2. RTL simulation code: to check the inference speed, e.g., frame per second

1.2.1. RTL code and Vivado project

- The code and the project must be organized to reproduce your simulation results.

- README: Briefly explain how to run the code.

1.2.2. Simulation waveform

- You must store the output waveform.

Note that we should be able to load the waveform file to check the result.

1.3. FPGA verification code: to check the power consumption

1.3.1. RTL code and Vivado project

- RTL code, Vivado project, implemented design and reports.

- README: Briefly explain how to run the code

Note: we should be able to load the project and the report to check the results.

1.3.2. Host PC and FPGA code

- Host PC code (C/Python): The code you use to communicate with an FPGA board

- Vitis code: The firmware code that receives

- README: Briefly explain how to run the code

1.4. Additional materials

- Captured images and relevant documents show that your design works correctly.

2. Presentation

2.1. Presentation time

- For the AIX paper, the time slot per paper is 10 minutes.

- A PC (MS Windows 10 with PowerPoint and Acrobat Reader installed) is prepared in each session room. All presentations should be conducted using this PC.

- Your presentation can be conducted in English or Korean.

2.2. The presentation file (ppt or pdf)

- The presentation should be clearly structured. Please refer to the Slide Preparation Guideline.

- The file name must be in the following format:
  AIX2023_(Team Name).pptx(.doc, docx, pdf)
    e.g., AIX2023_SAPIENS.pptx (for slide), where SAPIENS is the team name.

- For fair evaluation, you can NOT modify your presentation after submission. In other words, your submission file will be used at AICAS.

2.3. Video

- We request you to prepare and upload a video of your presentation, consisting of a brief introduction with a webcam, if desired, followed by voice-over slides for your presentation. Please note that the file must be a video file in MP4 format (more details below).

- Our recommended approach to recording a compatible video from the content displayed on your computer screen and voice recording via the computer microphone is to record the presentation using Zoom, available to users on most platforms and in most countries.

3. Important dates

- Submission of your design: February 24 (Friday), 2023.

4. Submission

In the final evaluation, you must submit your code, design, and expected output results to show us that they are working correctly.

The file name must be in the following format: AIX2023_(TeamName).zip

Submission links (Check README for details).