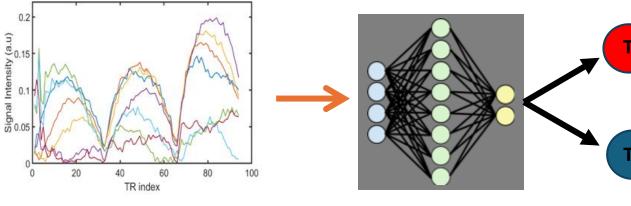


Hardware acceleration for fast MRF map reconstruction: FPGA porting of a deep learning algorithm

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UNIVERSITÀ DI PISA

Mattia Ricchi, Camilla Marella, Fabrizio Alfonsi, Marco Barbieri, Alessandra Retico, Alessandro Gabrielli, Leonardo Brizi, Claudia Testa.

<u>AIM</u>: Fast MRF quantitative maps reconstruction using an FPGA hardware accelerated neural network.

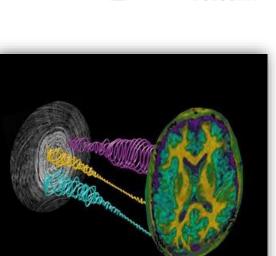


MR Fingerprinting Data simulation

Neural Network reduction and quantization to meet FPGA available resources



FPGA Hardware accelerator: Fast Neural Network Training



Fast MRF quantitative maps reconstruction