

SNNs with analog neurons and RRAM synapses

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Most of the actual sensors are providing events as their primary output. Temporal as well as spatial distributions contain information which is currently not completely exploited in current CNN and DNN. In such a context, Spiking Neural Networks (SNN) can bring different values for brain-like computing. This poster is describing our recent advancement in this field, starting with the programming issue which can be partially solved thanks to an automated CNN to SNN transformation and then with specific implantation in pure digital world and analogue/NVM implementation demonstrating huge