
***** HORA INFORMATICAЕ *****

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Deep Neural Networks

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Abstract: The long-term interest in cognitive sciences has been enhanced by several strong impulses to contemporary computer science - in particular by large government initiated brain research projects. Other developments shift the area even more from the traditional von Neumann computing paradigm towards true connectionism implemented in silicon, too. New imaging technologies allow to follow the brain activity even at the individual neuron's level. Inexpensive graphics processing units are becoming a common option for learning large-scale deep neural networks and currently unveiled brain-inspired chip architectures let us think of constructing complex cognitive algorithms mimicking the function of biological brains.

