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Deep Learning: Research Directions and Upcoming Challenges

Tuesday, 5 December 2017 13:30 (30 minutes)

The focus of this talk is an analysis of the upcoming trends in Deep Learning research, in particular as regards the most promising application fields which are likely to benefit from the AI revolution. We will take a deep dive into Deep Learning applications to Life Science and the Internet of Things, highlighting the challenges and advantages related to working on data with a structured representation. We will show examples ranging from sensor time series to labelled trees representing subclonal cancer populations, all the way to more complex graph structures capturing the articulated interactions between brain areas during cognitive processes. Particular focus will be given to the challenges and opportunities for the HPC and application developers communities.

HPC content

Contained in abstract

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Session Classification: Cognitive Computing and Machine Learning

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