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The challenge of Big Data in Science

Thursday, 14 February 2019 16:00 (1h 30m)

In the last decade science has tackled problems in advanced research that required and provided a rapidly growing amount of data.

Along with the size of these data, also their complexity has grown exponentially, as well as the time required to process and transport them across research centers worldwide. Availability of these data, their storage, the necessary computing power to extract meaning, the network to share them are all problems intertwined inextricably. Moreover, new technologies have surfaced, like multithreading, vectorization (and parallelism in general), along with methodologies such as Neural Networks, Artificial Intelligence and Quantum Computing. At the same time new computing languages are emerging, to cope with the necessity of allowing people to express complex constructs and algorithms in a natural and efficient way.

In this seminar we will highlight a global picture of this emerging scenario and discuss the point of view of a researcher in this context.

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