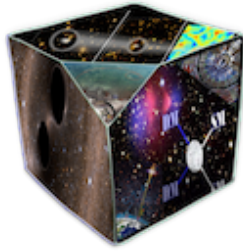


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Machine Learning: From Industry to Science

Wednesday 22 August 2018 14:00 (30 minutes)

New methods of big data analysis, data mining, data generations and data adaptation are widely used in many different areas of the modern society. This is mostly a result of fruitful cooperation between corresponding business experts and experts in relevant areas of the computing science. Natural sciences however, especially those frontiers like particle physics and cosmology at their extremes usually use different model: modern CS ideas are accommodated by specialists educated in the natural science, not by CS experts. In the presentation I will discuss pro and contra of this approach, give an overview which kind of problems may be better addressed using Machine Learning techniques. What may be expected when people apply ML to natural sciences, and which questions are still opened. We will also touch some ethical aspects related with increasing use of AI in modern world.

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Academic position

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Session Classification: Modern tools in detection and data analysis in particle physics and astrophysics