Artificial Intelligence in the Heavens and on Earth

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Machine learning is a branch of data science, aiming at building generic algorithms that can learn a specific task. Machine learning, sometime in disguise, has since long played a role in high energy physics and science. For a decade, trailing the rapid development of deep learning techniques and technology, numerous applications of deep learning in science have been developed and gradually integrated in experimental workflows. Artificial intelligence goes beyond deep learning, with imitating some human functions as a goal. From inception of deep learning in science, to the "automated researcher", we will review how deep learning entered the scientist toolbox and what one could expect from future developments.

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