Machine learning in sciences

István Csabai[1]

[1] Department of Physics of Complex Systems, Faculty of Science, Eötvös Loránd University, Budapest, Hungary

Deep learning has a deep relation with sciences: on one hand its motivation comes from neurobiology and also the math behind the algorithms is closely related to and based on the description of systems studied by physicists. On the other hand, the developed powerful machine learning tools can help not only everyday life like car driving or foreign language translation but they can bring new insights into basic research questions, too. I will review the role of machine learning in sciences and show some recent examples.