Special Issue

Application of Neural Networks to Plasma Data Analysis

Message from the Guest Editor

Our understanding of the physics of plasma has been mostly developed using tokamaks. This device is rather complicated, with many unknown variables to control in order for a fusion experiment to begin. Magnetic configuration, internal currents, geometric configuration. There are also various instabilities that should be controlled, including Alfven waves, elms, runaway electrons, and disruptions. All of these issues have been evaluated in various tokamaks and somehow controlled. It is possible to collect all these data and study the most efficient options using a multilayer perceptron, i.e., artificial intelligence.

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