Statistical Learning Methods. (D. Garreau).

Statistical Learning is a successful framework for computers to learn and perform complicated tasks. In recent years, human-like performance has been achieved in some applications such as object detection

The aim of this course is to discuss local and global existence results, conservation laws, and the existence and the qualitative properties of solitary wave solutions. This will involve a wide variety of branches of mathematics: functional analysis (Lebesgue and Sobolev spaces), harmonic analysis (Strichartz estimates) and variational methods.