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Detection, Recognition and Segmentation in Context



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Classification.NET: Efficient and Accurate Classification in C#

[Jamie Shotton](#)

[University of Cambridge, UK](#)

Abstract

Classification algorithms play a central role in many Computer Vision systems. To be of practical use, such algorithms must cope efficiently with the large quantities of high-dimensional data that Vision problems present. In this talk, we will investigate the practical use of C# for classification, including a look at support vector machines (SVMs) and boosting. We will delve under the hood of a simple boosting algorithm showing how it can be cleanly and efficiently implemented. Simple discriminative learning problems in Vision will be used to demonstrate the power of classification.

Finally we will show how classification has been successfully used in two real research problems.