



# Model Selection Competition and Workshop



## Aim and Scope:

This project is dedicated to stimulate research and reveal the state-of-the art in “model selection” by organizing a competition followed by a workshop. Model selection is a problem in statistics, machine learning, and data mining. Given training data consisting of input-output pairs, a model is built to predict the output from the input, usually by fitting adjustable parameters. Many predictive models have been proposed to perform such tasks, including linear models, neural networks, trees, and kernel methods. Finding methods to optimally select models, which will perform best on new test data, is the object of this project. The competition will help identifying accurate methods of model assessment, which may include variants of the well-known cross-validation methods and novel techniques based on learning theoretic performance bounds. Such methods are of great practical importance in pilot studies, for which it is essential to know precisely how well desired specifications are met.<sup>1</sup>

## Sponsorship Opportunity:

Sponsors are solicited to finance prizes and travel expenses to attend the workshop.

The donations will be received and administered by

### The International Unipen Foundation

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9752 VB Haren  
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**Competition / Prize donation]**.

For references concerning the foundation:

Chamber of Commerce (KvK) number 09107789.

If you wish to be listed as a sponsor on the challenge web site and cited at the workshop (for a contribution of \$500 or more), please email your company logo, url, and

a short one-sentence statement to **modelselect @ clopinet . com**.

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