

## **Neural Computation Modules for Nonlinear Regression and Classification**

The PACE Machine Learning Group has developed neural computation modules for nonlinear regression and classification. These modules have been used to determine sets of favorable tile sizes by predicting execution time as a function of tile sizes. This has been done in both the single architecture scenario as well as across multiple architectures, using data generated by the Rice RCacheSim simulator.

The modules are available as licensed software in the Linux / X86 environment, along with example parameter sets ("worksheets") and data that reproduce existing results. Use of the software requires solid knowledge of self-organizing maps, and neural computation in general. Knowledge of some technical details of third party software is also required.

Interested users should contact:

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