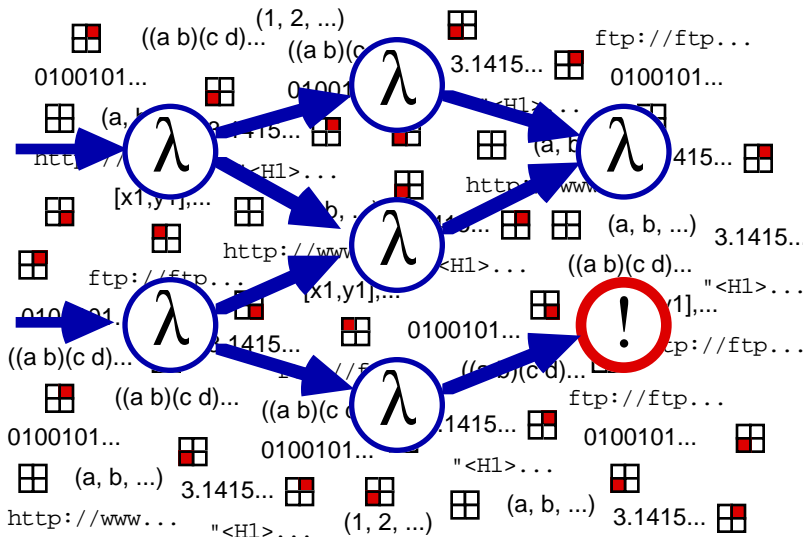# Multi-Type, Self-Adaptive Genetic Programming for Complex Applications



## New Ideas

• Richly heterogeneous data can be flexibly integrated in programs produced by stack-based genetic programming.

• Explicit code manipulation allows for automatic emergence of modules and evolved program architecture.

• Self-adaptive construction of evolutionary mechanisms enhances fit to problem environments.

## Impact

• Evolved agents for heterogeneous, dynamic environments.

• Broader range of applications for automatic programming technologies.

• Automatic programming with less configuration by users.

## Schedule



Port new GP systems to Beowulf cluster

Integration with agent environments

Alternative building-blocks

Feb 01          Feb 02          Feb 03          Feb 04

Benchmarking          Application/analysis

Analysis of evolved agents

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