

The Research in Computer Science Seminar

“Points of Interest Along the Santa Fe Ant Trail”

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Genetic Programming (GP) is a technique for evolving populations of computer programs using principles of natural selection. One famous benchmark of GP performance involves finding a program to control an artificial ant to maximize its food-gathering abilities within a fixed domain. Grammatical Evolution (GE) is a form of grammar-based genetic programming. Our primary interest in GE lies in the realm of generative and developmental systems. Since GE is based on grammars we are hoping to use a grammatical structure called an L-system to develop techniques that will allow us to generalize solutions to ant problems to make them scale to domains of many different sizes.

Campus Center 302

Friday, October 2, 2009

12:15 – 1:15

All are welcome to attend!

For more information:

<http://www.cs.allegheyeny.edu/~gkapfham/research/RICSS/>