

Department Colloquium

Speaker: Andrew McEachern, Queen's University

Date: Friday, September 25

Time: 2:30 p.m.

Place: Jeffery 234

Title: Woven String Kernels and a Problem of Analyzing DNA Sequences

Abstract: Woven string kernels are a form of evolvable, directed, acyclic graphs specialized to perform DNA classification. Part of this talk is devoted to a visualization technique called non-linear projection, an evolvable form of multidimensional scaling that is used in the analysis of experimental results. The woven string kernels are tested on simple and complex synthetic data as well as biological data, using an evolutionary algorithm to find woven string kernels that are acceptable solutions for classification.