



**Cork Constraint Computation Centre**

University College Cork

"Making Hard Choices Easier"



# Collaborative Learning for Constraint Solving

## Project Description

Constraint Programming is an important, emerging field of computer science that addresses hard combinatorial problems. This project addresses a key frontier for constraint programming, with broader implications for software development. Different problem classes often require different combinations of solution methods. Constructing solvers is a craft, it should be a science. The project proposes to automate the construction of problem-class-specific solvers using machine learning techniques: each solver will be an adapted, collaborative "community" of heuristics appropriate for its problem class. This will allow more efficient and appropriate selection of methods for specific problem classes, and the discovery of novel solution strategies.

## Project Coordinator

Dr Rick Wallace

## Project Partners

Dr Susan L. Epstein – City University of New York



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