

## CWSF 2015 - Fredericton, New Brunswick



### Tony Chen

#### A Novel Application of Swarm Intelligence in Policing

**Challenge:** Innovation

**Category:** Senior

**Region:** South Fraser

**City:** Surrey, BC

**School:** Surrey Connect

**Abstract:** Over the past decade, the average response time to emergency calls has increased. Commonly used methods to reduce response time such as the Floyd-Warshall algorithm do not take into account that some police stations are overworked. I propose the use of the artificial fish swarm algorithm to reduce the response times in Vancouver and ensure that each police station handles an approximate number of crimes.

#### Biography

Hello, my name is Tony Chen. I enjoy playing the flute, studying mathematics and computer science, and playing badminton during my spare time. During summers, I participate in various mathcamps to strengthen my knowledge of mathematics.