

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.