

ESPC 2009 - Winnipeg (Manitoba)



Biographie

Adam Bennett was born on July 17, 1992, in Ottawa, Ontario. He currently lives outside Smiths Falls with his parents, Diane and David, and his two sisters, Laura and Dayna. Currently he is a Grade 11 student at Smiths Falls District Collegiate Institute, in Smiths Falls, Ontario. His interests include Electronics, Robotics, Programming Languages, and Computer Science.

Adam Bennett

Using Genetic Algorithms to Solve the Traveling Salesman Problem

Division: Sciences de la terre et de l'environnement / Technologie automobile Catégorie: Sénior Région: Rideau-St. Lawrence Ville:

Smiths Falls, ON

École: Smiths Falls District Collegiate Institute

Sommaire: This project describes the design, development and testing of software which uses genetic algorithms to solve Traveling Salesman Problems in two or three dimensional space and on the surface of a sphere. This program is used to investigate various aspects of genetic algorithms, including the effects of changing the population size, number of locations, and number of mutations. Applications for autonomous vehicles are considered.

Prix	Valeur
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie	2 000,00 \$
Médaillé d'argent, sénior - Bourse de début d'études de 2 000 \$	
Commanditaire: Université Dalhousie, Faculté des sciences	
Bourse d'études de l'Université Western Ontario	1 500,00 \$
Médaillé d'argent - Bourse de début d'études de 1 500 \$	
Commanditaire: Université Western Ontario	
Bourse d'admission de l'Université d'Ottawa	3 000,00 \$
Médaillé d'argent, sénior ? Bourse d'études de 3 000 \$	
Commanditaire: Université d'Ottawa	
Mention honorable - Sciences de l'informatique - Sénior	100,00 \$
Commanditaire: Intel of Canada, Ltd.	
Médaille d'argent - Technologie automobile - Sénior	700,00 \$
Commanditaire: AUTO21	
Total	7 300,00 \$



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