

ESPC 2008 - Ottawa (Ontario)



Stephen Portillo

On the Right Path

Division: Sciences de la terre et de l'environnement / Innovation environnementale

Catégorie: Sénior

Région: Edmonton

Ville: Sherwood Park, AB

École: Old Scona School

Sommaire: A Java program was created to simulate commuters using a region's transportation networks to travel to destinations according to the A*pathfinding algorithm. Then, an experiment was run to test the program, comparing a proposed transit system with an existing one in Sherwood Park. The program predicted that the proposal would increase midday ridership from 5.9% to 8.0%, but also revealed some flaws in the proposal.

Biographie

I am 16 years old and currently am in Grade 12 at Old Scona Academic High School. At school, I serve as the Vice President of the Students' Union and am an active member of: the Speech and Debate team, the Football and Frisbee Club, and a tutoring service named Change for Change. Since Grade 1, I have been a part of my schools' Science Olympics teams, culminating in a 1st place finish in Grade 11 and 3rd place finish this year. I have been programming since I was 8, and have learned BASIC, Visual Basic, HTML, CSS, and Java. Working with students and faculty of the University of Alberta, I participated in the inaugural Cluster Challenge at Supercomputing '08 in Reno, Nevada. My biggest hobby is definitely astronomy, so my family is part of the Royal Astronomical Society and I volunteer at the Telus World of Science Edmonton observatory. I plan to become an astrophysicist, starting with undergrad studies at the University of Alberta.

Prix

Valeur

Atelier sur le traitement parallèle en astrophysique Commanditaire: L'institut canadien d'astrophysique théorique et le département d'astronomie et d'astrophysique de l'Université de Toronto	1 500,00 \$
Bourses d'admission de la Faculté des sciences de l'Université Dalhousie Médaillé d'argent, sénior - Bourse de début d'études de 2 000 \$ Commanditaire: Université Dalhousie, Faculté des sciences	2 000,00 \$
Prix d'admission en sciences de UBC (Vancouver) Médaillé d'argent, sénior - Bourse d'admission de 2 000 \$ Commanditaire: The University of British Columbia (Vancouver)	2 000,00 \$
Bourse d'études de l'Université Western Ontario Médaillé d'argent - Bourse de début d'études de 1 500 \$ Commanditaire: Université Western Ontario	1 500,00 \$
Bourse d'admission de l'Université d'Ottawa Médaillé d'argent, sénior ? Bourse d'études de 3 000 \$ Commanditaire: Université d'Ottawa	3 000,00 \$
Médaille d'argent - Sciences de l'informatique - Sénior Commanditaire: Intel of Canada, Ltd.	700,00 \$
Total	10 700,00 \$