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 $
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Médaille d'argent - Sciences de l'informatique - Sénior Commanditaire: Intel of Canada, Ltd.	700,00 $
Total	10 700,00 $

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