

Seminar

Dr. Jared Howell
Grenfell Campus, Memorial University

Wednesday, August 17, 2016
2:00 p.m., HH-3017

The Watchman's Walk: An Overview

Abstract:

A watchman's walk in a graph G is a minimum closed dominating walk, which can be thought of as an optimal way to move through a graph continuously and see (but not necessarily visit) every vertex. This talk consists of four sections. First, a brief background and early results on the problem. Second, a look at watchman's walks on block intersection graphs of Steiner triple systems. Third, an introduction to the watchman's walk multiplicity of a graph G ; that is, the number of different collections of edges produced by watchman's walks of G . Finally, a look at some current and possible future work on the problem.