

## COMPUTER SCIENCE RESEARCH SEMINAR

### Dynamic Programming for the Masses

**Patrick Madden, Associate Professor**  
**Department of Computer Science, Binghamton University**

**Friday, March 2nd at noon in room R15, Engineering Building**

**Abstract:** Combinatorial optimization problems are notoriously difficult; many of them are NP-Complete, and there are few general purpose tools available. In this talk, a novel approach to optimization for these problems is presented; the approach provides trade-offs between simple greedy heuristics, classical dynamic programming, and brute force enumeration. This work is part of a larger effort to deliver sophisticated optimization tools to the general public.

**Bio:** Patrick H. Madden is an associate professor of Computer Science at Binghamton. He joined the department in 1998, after receiving his PhD from UCLA. His research interests are on integrated circuit physical design automation, with an emphasis on combinatorial optimization problems. He has served as the Chair of the ACM Special Interest Group on Design Automation, the Chair of the ACM SIG Governing Board, and on the organizing committees and TPCs of all major design automation conferences. He also plays guitar, poorly.

This event is funded by GSOCS, a subsidiary of GSO, using Student Activity Fee funds

**Wraps, chips and soda will be provided!**