The Linear Complexity of a Graph

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The linear complexity of a matrix is a measure of the number of additions, subtractions, and scalar multiplications required to multiply that matrix and an arbitrary vector. The linear complexity of a graph is then defined to be the linear complexity of any one of its adjacency matrices. In this talk, I'll explain why the linear complexity of a graph is a useful measure of its complexity. I'll also explain how to compute (or at least give upper bounds for) the linear complexity of several classes of graphs. This talk will be accessible to both computer science and mathematics students.

Monday, March 14, 2011
12:30 p.m.
McCordell Bicentennial Hall 538

Pizza will be served at 12:15

Prof. Orrison will also hold an info session about the AIT study abroad program in Budapest. Please consider attending! MBH 430, 3:00 p.m.