
HARMONY ZHAN, Worcester Polytechnic Institute
Spectra of line digraphs and their applications

The line digraph of a graph X has all arcs of X as its vertices, and an arc (a, b) is adjacent to an arc (c, d) if $b = c$. In this talk, we will explore the spectra of some matrix representations of line digraphs, and see a few applications where X is highly regular.