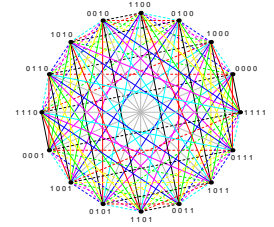**Jointly Organized by
School of Computer Science and
Department of Mathematics and Statistics**

October 15 (Tuesday), 16:45 – 17:45, Burnside Hall 1205

Extremal metrics on graphs

by

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Abstract. We assign weights to the edges of a graph, and study extremal weights for various functionals, such as girth, diameter, determinant of Laplacian (or complexity), the first nonzero eigenvalue of the Laplacian. We also discuss some related extremal problems in geometry and graph theory.