



THE UNIVERSITY OF CHICAGO

COMPUTATIONAL AND APPLIED MATHEMATICS
STUDENT SEMINAR

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“A New Look at Clustering Coefficients, with Generalization to
Weighted and Multi-faction Networks”

THURSDAY, October 26, 2017, at 1:00 PM
Jones 226, 5747 South Ellis Avenue

ABSTRACT

In this talk, a new method will be proposed for studying local and global clustering in networks by employing random walk pairs. The method is intuitive and directly generalizes standard local and global clustering coefficients to weighted networks and networks containing nodes of multiple types. In the case of two-mode networks, the values obtained for commonly considered social networks are in sharp contrast to those obtained by other methods, and provide a different viewpoint for clustering. The approach is also applicable in questions related to the general study of segregation and homophily. Applications to existent data sets are considered.