

Master's Seminar banner

"Using PageRank to Characterize Web Structure"

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ABSTRACT

One of the remarkable properties about the Web graph is that the degree distribution follows a power law. Although this is the key property that most Web models try to capture, it is pointed out that the degree distribution is a very local property of graphs. Pandurangan, Raghavan, and Upfal (2002) augment the degree distribution approach using the distribution of PageRank values (used in the Google search engine) on the Web. They show that PageRank values on the Web also follow a power law and develop detailed models for the Web graph that explain this observation, and remain faithful to previously studied degree distributions.