PAWEL PRALAT, University of Waterloo, 200 University Ave. W., Waterloo, ON N2L 3G1

Protean graphs

The web may be viewed as a directed graph each of whose vertices corresponds to a static HTML web page, and each of whose arcs corresponds to a hyperlink from one web page to another. Recently there has been considerable interest in using random graphs to model complex real-world networks to gain an insight into their properties.

We propose a new random model of web graph in which the degrees of a vertex depends on its age. We characterize the degree sequence of this model and study its behaviour near the connectivity threshold.

Joint work with Tomasz Luczak.