Network Dynamics of Knowledge Creation the Wikishere

Myshkin Ingawale

Abstract

The rapid success of initiatives such a Sourrouse, Slashdot, Wikipedia, Digg, Facebook, Del.icio.us and others over the last decade have aroused tremendous academatinithte field of social computing This thesisaddresses the research gaps in extant literature in the understanding of growth dynamics emergence and persistence of high quality content in a social computing forumcalled Wikipedia Wikipedia is a freeonline encyclopedia that

significant churn in the contributor base. Using our results of street enature and assortativity in degree distribution and drawing from prior work in diverse areas of memetics, epidemiological approach to culture, contagion theory and network science, we also put forward a networtheoretic explanation for the sustainability of government mechanism. In particular, we claim that provided an interaction network displays the structural characteristics of scattee degree distribution and assortative mixing of nodes, it is a candidate for persistence of social norms in its inoner. This processs i path dependent. In a system where the initial social norms benefit quality, the governance mechanism they provide is likely to persist indefinite Type contributions of this work are as follows:

Exploratory

- Carries out the longitudinal network analysis of 6 different language Wikipedias, and document the evolution of structural measures over the full-different beginning from inception. Uncovers interaction networks to be strate and norhierarchical.
- Develops an understanding of growth over time.
- To the best of our knowledge, this is the firefire to investigate, uncover and analyze interaction network dynamics Wikipedia or any similar social system.

Explanatory

 Uncovers the mechanism by which high quality articles emerge in an interaction network, and highlights the role played by hubs therein.