راهنما و خلاصه مقالات

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Weighted Estimation of Information Diffusion Probabilities for Independent Cascade Model

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Abstract

In recent years, social networks have become popular among Internet users, and various studies have been performed on analysis of such networks. One of the important issues in analyzing social networks is information diffusion analysis. In this context, users' behavior is assumed to be influenced by other social network users. Several models have been designed to simulate and analyze how information is disseminated in social networks. In this paper, we study the problem of learning the diffusion probabilities for the independent cascade model. We first outline the importance of the subject, and then we propose a method to estimate diffusion probabilities. In this method, we assign a weight to each individual diffusion sample of each link in the network based on its parameters. We propose two weighting schemes to consider the different effects of diffusion samples. Then, we evaluate our method for learning diffusion probabilities with the help of several datasets and present the results. Also, the method presented in this paper is compared with other methods in terms of mean absolute error and training time.

Keywords: Independent Cascade Model, Information Diffusion, Social Network Analysis.

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Interactive Web, Social Media, Virtual Social Networks: Similar but different concepts

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Abstract

In regards to increasing the research interest in web research studies and the applications of web research in various fields, it needs to define and investigate the related concepts to the web. This study discusses and defines the different types of web and related concepts. In this study different types of the web from web 1.0 to web 5.0 and their tools will define, then compare web 2.0 as the interactive web, social media and virtual social networks, their similarities, and differences. Findings show that although web 2.0, social media and virtual social networks have similarities in definition and application, they are different concepts which cannot use them instead.

Keywords: Web 2.0, Interactive Web, Social Media, Virtual Social Networks.