

# A Diffusion method for image recommendation in Web Graph Mining

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*Abstract*— The information on the World Wide Web grows in an explosive rate. People are relying new and on the Web for their diverse needs of images. Recommendation systems are active information filtering systems that attempt to present the information items like movies, music, images, books recommendations, query suggestions, tags recommendations, etc., to the users. Various types of data sources are used for the recommendations; fundamentally these data sources can be modeled in the form of various types of graphs. Aiming at providing a general framework on effective DR (Recommendations by Diffusion) algorithm for web graphs mining. First introduce a novel graph diffusion model based on heat diffusion. This method can be applied to both undirected graphs and directed graphs. For the image recommendation Flickr data set has been chosen and the proposed recommendation framework is applied in several application areas. It includes Image-to-Image Recommendation, Image-to-Tag Recommendation, Tag-to-Image Recommendation and Tag-to-Tag Recommendation. Finally the related images are presented to the given inputs.

*Index Terms*— image Recommendation Systems, Web Mining, Heat Diffusion.