

Network Science and Network mining

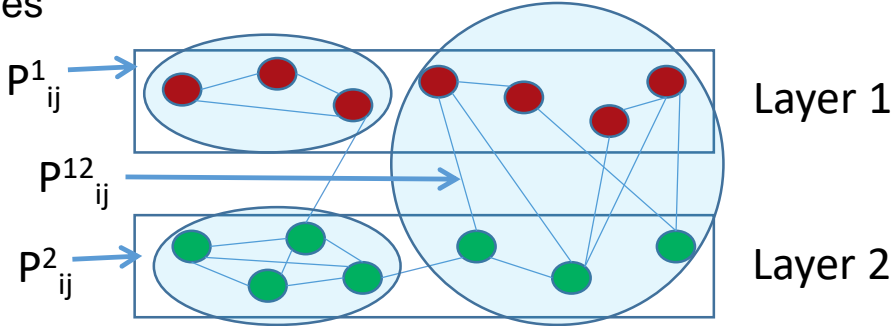
Publications: WSDM 2020, IEEE TCSS 2019, SNAM 2017, ASONAM 2017, PAKDD 2019, IEEE BigData 2018, DSAA 2016-2017

Funded by DST-CEFIPRA, DST-Belgian Research Cooperation

Collaborations: University Pierre and Marie Curie, Paris, Université de La Rochelle, France, Université catholique de Louvain, University of Namur, Belgium.

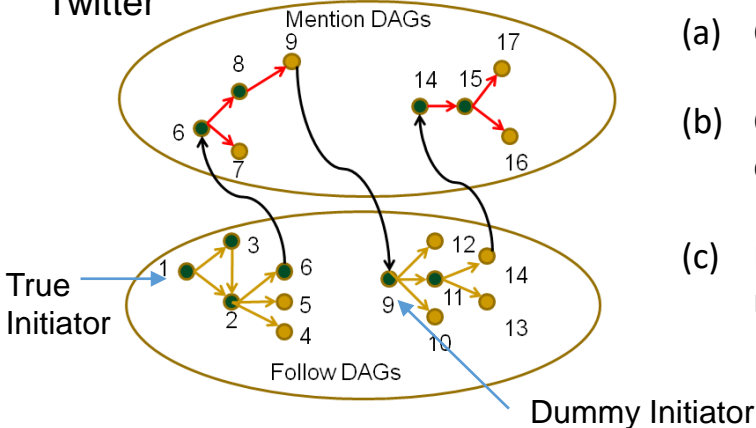
Multilayer community detection

Developed a methodology to detect communities in multilayer networks, comprising both single type & multiple types of nodes



Information diffusion in multilayer network

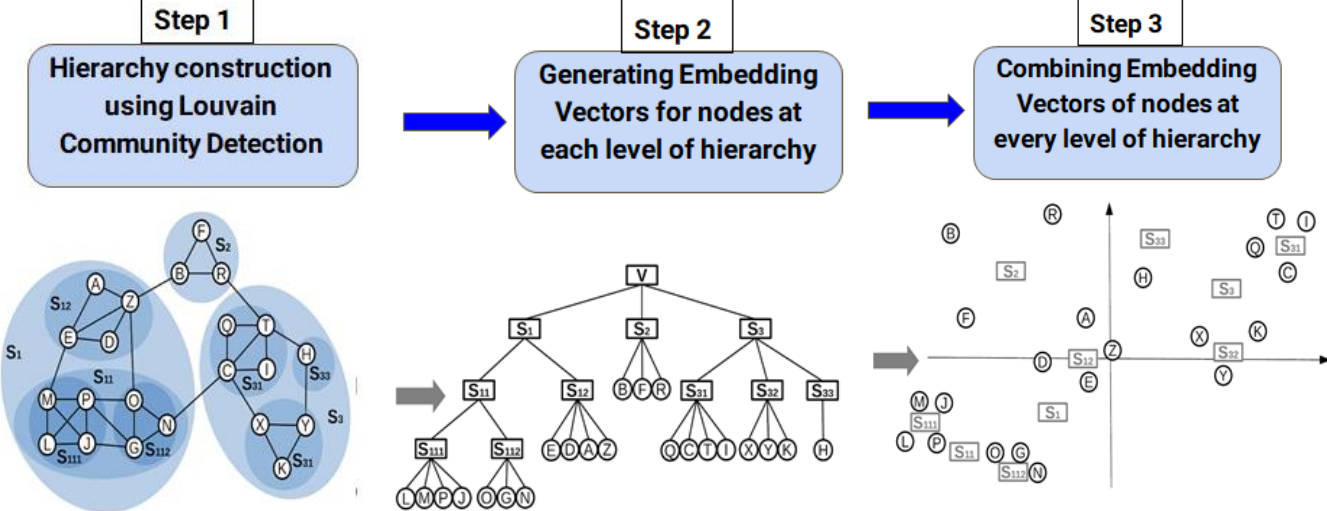
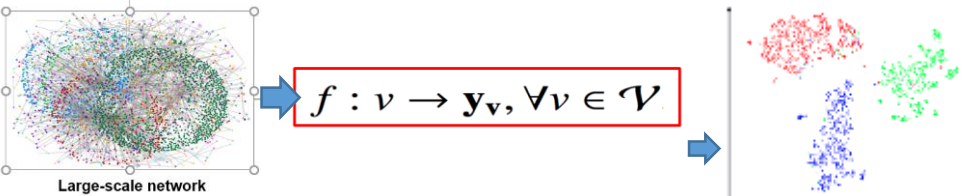
Modeled information diffusion via Follow and Mention activities in Twitter



- (a) Compute cascade size
- (b) Critical condition of cascade formation
- (c) Mention recommendation

Scalable network embedding

Developed a fast and highly scalable network embedding framework

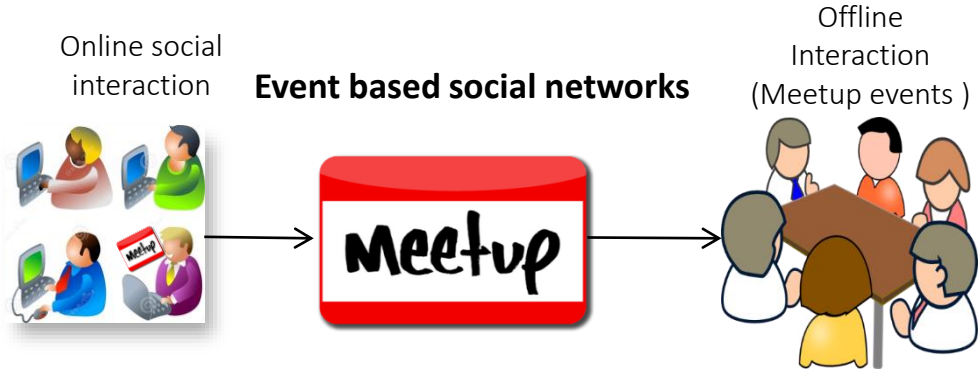


Event based and Location based social networks

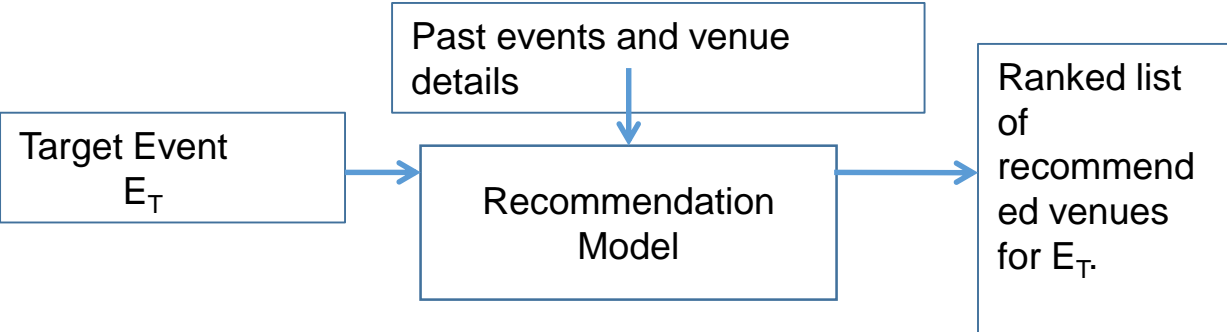
Publications: ICWSM 2021, ICWSM 2020, IEEE TKDE 2020, COMCOM 2019, ASONAM 2016, MDM 2017, ICWSM 2016, PAKDD 2015

Collaborations: Microsoft Research, USA

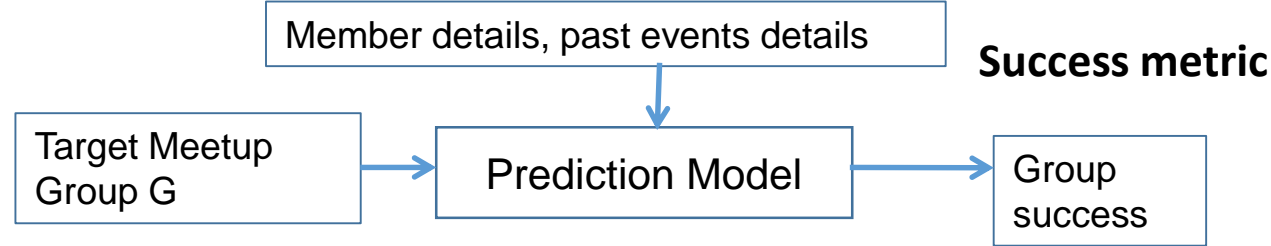
Funded by ISIRD, IIT KGP



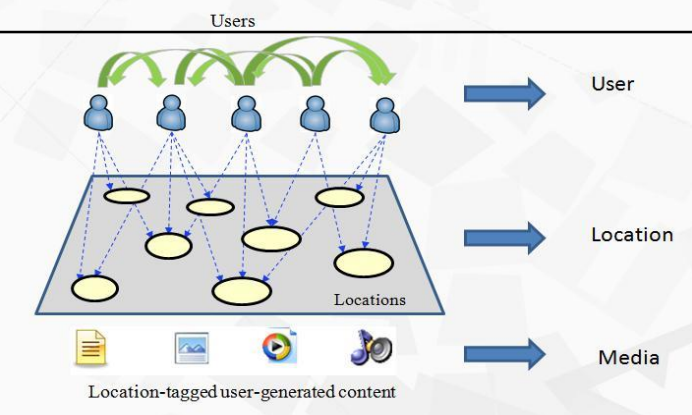
Recommend venues for hosting a Meetup event successfully



Predict whether a group will be successful in future



Location based social networks (Yelp)



Point of Interest:

Recommend new businesses to customers to visit



(a) Predict popularity of a business

(b) Recommend locations for setting up (popular) businesses of category C

