

TIGP SNHCC 2019 Spring Syllabus

Data Mining in Social Networks (DM)

Place: Room 108, Old Building, IIS, AS
Time: 9:00-12:00 Thurs **Chair:** Dr. M. K. Shan
Outline: In this course, the following topics will be presented and discussed: social media analysis, blogs and friendship network analysis, email and messaging analytics, influence spreading and viral marketing, social reputation and trust, user profiling and recommendation systems, social media searches, expertise and authority discovery, community identification, link prediction, collaborative data analysis, and data mining with social factors.
Textbook: Social Network Data Analytics, Charu C. Aggarwal (Ed.), Springer 2011
Reference: Data Mining: Concepts and Techniques, J. Han, M. Kamber, and J. Pei, 3rd edition, Morgan Kaufmann, 2011.
 Introduction to Data Mining, P.N. Tan, M. Steinbach, and V. Kumar, Addison Wesley, 2006.
TA: Kevin Lin (kevin99703012@gmail.com)
Office hours: by appointment
Grades: Exam 50% and Project 50%
For the most updated syllabus, please visit <http://tigpsnhcc.iis.sinica.edu.tw/course.html#s1>

Week	Date	Topics/Brief Description	Lecturers
1	2019/02/28	228 Memorial Day	No-Class
2	2019/03/07	Introduction to Social Network Mining	Man-Kwan Shan
3	2019/03/14	Review of Data Mining Techniques: Frequent Pattern Mining, Clustering	Man-Kwan Shan
4	2019/03/21	Review of Data Mining Techniques: Classification, Dimensionality Reduction	Man-Kwan Shan
5	2019/03/28	Network Measures and Social Network Properties	Mi-Yen Yeh
6	2019/04/04	Spring Break_No Class	
7	2019/04/11	Network Models and Community Detection	Mi-Yen Yeh
8	2019/04/18	Graph Embeddings	Mi-Yen Yeh
9	2019/04/25	Social Recommendation	Mi-Yen Yeh
10	2019/05/02	Python Tools for Social Network Mining	Man-Kwan Shan
11	2019/05/09	A Survey of Link Prediction	De-Nian Yang
12	2019/05/16	Privacy in Social Networks: A Survey	De-Nian Yang
13	2019/05/23	Exam	
14	2019/05/30	Text Mining in Social Networks	De-Nian Yang
15	2019/06/06	Project Proposal	
16	2019/06/13	A Survey of Models and Algorithms for Social Influence Analysis	Yi-Shin Chen @ Delta 632, NTHU
17	2019/06/20	Social Emotion Analysis	
18	2019/06/27	Project Presentation	