

## Data Mining in Social Networks ( DM ) Fall 2014

Place: Room 108, Old Building, IIS, AS  
 Time: 9:00-12:00 Thurs  
 Chair: Dr. Arbee L.P. Chen

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/Reference: Social Network Data Analytics, Charu C. Aggarwal (Ed.), Springer 2011  
 Office hours: by appointment  
 Grades: Midterm exam 50%. Final exam 50%

Week	Date	Topics/Brief Description	Lecturers
1	2014/09/18	Chapter 1: An Introduction to Social Network Data Analytics	Arbee L.P. Chen
2	2014/09/25	Chapter 2: Statistical Properties of Social Networks	Mi-Yen Yeh
3	2014/10/02	Chapter 4 Community Discovery in Social Networks: Applications, Methods and Emerging Trends	Mi-Yen Yeh
4	2014/10/09	Classification Techniques I	Kuo-Wei Hsu
5	2014/10/16	Classification Techniques II	Kuo-Wei Hsu
6	2014/10/23	Chapter 5 Node Classification in Social Networks	Kuo-Wei Hsu
7	2014/10/30	Chapter 6 Evolution in Social Networks: A Survey	Mi-Yen Yeh
8	2014/11/06	Chapter 7 A Survey of Models and Algorithms for Social Influence Analysis	Yi-Shin Chen
9	2014/11/13	Chapter 8 A Survey of Algorithms and Systems for Expert Location in Social Networks	Yi-Shin Chen
10	2014/11/20	Midterm Exam ( Chapters 2, 4-8 and classification techniques)	
11	2014/11/27	Chapter 9 A Survey of Link Prediction	De-Nian Yang
12	2014/12/04	Chapter 10 Privacy in Social Networks: A Survey	De-Nian Yang
13	2014/12/11	Chapter 12 Data Mining in Social Media	Arbee L.P. Chen
14	2014/12/18	Chapter 13 Text Mining in Social Networks	De-Nian Yang
15	2014/12/25	Chapter 14 Integrating Sensors and Social Networks	Arbee L.P. Chen
16	2015/01/01 <a href="#">Moved to 12/31</a>	Chapter 16 An Overview of Social Tagging.	Yi-Shin Chen
17	2015/01/08	Review Week	
18	2015/01/15	Final Exam (Chapters 9-10, 12-14, 16)	