

## **Knowledge Discovery in Social and Information Networks**

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### Course Outline:

This chapter will introduce general principles and recent developments on knowledge discovery in social and information networks. It covers the following topics:

- 1) Graph pattern mining, graph cluster analysis and graph classification methods
- 2) Social networks and statistical methods for social network analysis
- 3) Introduction to information networks and information network analysis
- 4) Recent developments on mining heterogeneous information networks: data cleaning, data validation, online analytical processing, user-guided clustering, rank-based clustering, and network-based classification methods.