



UNIVERSITÀ
DEGLI STUDI DI BARI
ALDO MORO



Laboratorio di Acquisizione
della Conoscenza e
Apprendimento delle Macchine



Centro
Interdipartimentale di
Logica e
Applicazioni



DIPARTIMENTO
DI INFORMATICA

Dottorato di Ricerca in Informatica e Matematica

"Social network analysis"

ciclo seminariale del

Prof. Dino Pedreschi

Università di Pisa, Dipartimento di Informatica, KDD Lab

| Graph theory and social networks | |
|---------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 1. Graphs - Basic network measures: degree, distance, clustering | <i>Lunedì 27 aprile 2015, ore 10.00-11.00</i> Aula Gödel, Dipartimento di Informatica |
| 2. Social, information, biological and technological networks: Random graphs and real networks, Scale Free networks | <i>Lunedì 27 aprile 2015, ore 14.30-15.30</i> Aula Gödel, Dipartimento di Informatica |
| 3. Graphs: Strong and weak ties | <i>Martedì 28 aprile 2015, ore 10.00-11.00</i> Aula Gödel, Dipartimento di Informatica |
| 4. Generative models: Small World model and Barabasi-Albert model (Preferential attachment) | <i>Martedì 28 aprile 2015, ore 14.00-15.00</i> Aula Gödel, Dipartimento di Informatica |
| Network dynamics | |
| 5. Link Prediction and Information cascades | <i>Lunedì 4 maggio 2015, ore 10.00-11.00</i> Aula Gödel, Dipartimento di Informatica |
| 6. Power laws, rich-get-richer phenomena and small-world phenomenon | <i>Lunedì 4 maggio 2015, ore 14.30-15.30</i> Aula Gödel, Dipartimento di Informatica |
| 7. Epidemics: Diffusion, spreading, contagion, epidemics | <i>Martedì 5 maggio 2015, ore 10.00-11.00</i> Aula Gödel, Dipartimento di Informatica |
| 8. Network effects: Schelling's segregation model | <i>Martedì 5 maggio 2015, ore 14.00-15.00</i> Aula Gödel, Dipartimento di Informatica |



Dino Pedreschi is a Professor of Computer Science at the University of Pisa, and a pioneering scientist in mobility data mining, social network mining and privacy-preserving data mining. He co-leads the Pisa KDD Lab - Knowledge Discovery and Data Mining Laboratory <http://kdd.isti.cnr.it>, a joint research initiative of the University of Pisa and the Information Science and Technology Institute of the Italian National Research Council, one of the earliest research lab centered on data mining. His research focus is on big data analytics and mining and their impact on society. He is a founder of the Business Informatics MSc program at Univ. Pisa, a course targeted at the education of interdisciplinary data scientists. Dino has been a visiting scientist at Barabasi Lab (Center for Complex Network Research) of Northeastern University, Boston, and earlier at the University of Texas at Austin, at CWI Amsterdam and at UCLA. In 2009, Dino received a Google Research Award for his research on privacy-preserving data mining.