

Multilayer Social Networks

Multilayer networks, in particular, multilayer social networks, are an emerging and active research area in several disciplines, including social network analysis, computer science, and physics. They have traditionally been studied within these separate research communities, leading to the development of several independent models and methods to deal with the same set of problems.

This book unifies and consolidates existing knowledge in multilayer networks, making the relevant methods accessible to researchers and practitioners across an array of disciplines from data science to computer science, social network analysis, sociology, and physics. A range of practical and theoretical topics is covered, from data collection and analysis, modeling, and mining of multilayer social network systems to theoretical models behind the evolution of interconnected social networks and dynamic processes such as information spreading.

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To my family and my fiancée. M. D.
To my family and lo scrondo. M. M.
To my family, Serena and + 2. L. R.

Contents

<i>List of Abbreviations</i>	<i>page ix</i>
1 Moving Out of Flatland	1
1.1 Multiple Social Networks in Our Everyday Experience	1
1.2 An Introductory Example	5
1.3 Scope and Other Learning Resources	7
1.4 Outline of the Book	8
1.5 Acknowledgments	11
PART I MODELS AND MEASURES	
2 Representing Multilayer Social Networks	15
2.1 Terminology and Model	17
2.2 Related Models	20
2.3 Data Sets	32
3 Measuring Multilayer Social Networks	38
3.1 Four Main Approaches	39
3.2 Actor Measures	42
3.3 Layer Measures	61
PART II MINING MULTILAYER NETWORKS	
4 Data Collection and Preprocessing	67
4.1 Issues in Data Collection	68
4.2 Network Simplification	73
5 Visualizing Multilayer Networks	79
5.1 Four Main Approaches	79

5.2	Visualizing Multilayer Network Metrics	82
5.3	Visualizing Multilayer Network Structures	85
5.4	Augmented Networks: Structure + Measures	90
5.5	Simplified Network Visualization	92
6	Community Detection	96
6.1	Methods Based on Simplification	99
6.2	Combination of Single-Layer Communities	104
6.3	Multilayer Modularity Optimization	108
6.4	Multiple Actor Types	113
6.5	Community Interpretation, Evaluation, and Description	113
7	Edge Patterns	119
7.1	Edge Prediction	120
7.2	Layer Associativity	125
PART III DYNAMICAL PROCESSES		
8	Formation of Multilayer Social Networks	133
8.1	General Properties for Social Network Formation	134
8.2	Single-Layer Network Formation	135
8.3	Multilayer Properties	140
8.4	Multilayer Formation Models	143
9	Information and Behavior Diffusion	149
9.1	Diffusion in Networks	149
9.2	Modeling Information Spreading	151
9.3	Opinion Formation and Behavior Adaptation	161
PART IV CONCLUSION		
10	Future Directions	169
10.1	New Models and Measures	170
10.2	Multilayer Network Visualization	172
10.3	Communities and Other Groups	173
10.4	Formation, Diffusion, and Temporal Processes	175
10.5	Big Open Data	176
	<i>Glossary</i>	179
	<i>Bibliography</i>	183
	<i>Index</i>	201

List of Abbreviations

EA	edge assignment
ER	erdős-rényi
ERGM	exponential random graph model
HIN	heterogeneous information network
NG	network growth
OSN	online social network
SNA	social network analysis