1. Record Nr. UNINA9910299691003321

Titolo	Complex Networks VI : Proceedings of the 6th Workshop on Complex Networks CompleNet 2015 / / edited by Giuseppe Mangioni, Filippo Simini, Stephen Miles Uzzo, Dashun Wang
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-16112-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (X, 232 p. 74 illus., 52 illus. in color.)
Collana	Studies in Computational Intelligence, , 1860-949X ; ; 597
Disciplina	004.6
Soggetti	Computational intelligence Artificial intelligence Computational Intelligence Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	A Flexible Fitness Function for Community Detection in Complex Networks -- Finding network motifs using MCMC sampling -- Analysis of the Robustness of Degree Centrality against Random Errors in Graphs -- A Model for Ambiguation and an Algorithm for Disambiguation in Social Networks -- Measuring the Generalized Friendship Paradox in Networks with Quality-dependent Connectivity -- Expected Nodes: a quality function for the detection of link communities -- Core-Periphery Models for Graphs Based on their -Hyperbolicity: An Example Using Biological Networks -- Fast Optimization of Hamiltonian for Constrained Community Detection -- Selecting Seed Nodes for Influence Maximization in Dynamic Networks -- Neighbourhood Distinctiveness: an initial study -- An Efficient Estimation of a Node’s Between ness -- Sentiment Classification Analysis of Chinese Microblog Network -- Techniques for Brain Functional Connectivity Analysis from High Resolution Imaging -- A Two-Parameter Method to Characterize the Network Reliability for Diffusive Processes -- Analysis of the Effects of Communication Delay in the Distributed Global Connectivity Maintenance of a Multi-Robot System -- Inter-Layer Degree Correlations in Heterogeneously Growing

Multiplex Networks -- Dynamics of Conflicting Beliefs in Social Networks -- Building Mini-Categories in Product Networks -- Categorical Framework for Complex Organizational Networks: Understanding the Effects of Types, Size, Layers, Dynamics and Dimensions -- Studying Reciprocity and Communication Probability Ratio in Weighted Phone Call Ego Networks -- NetSci High: Bringing Network Science Research to High Schools -- Terrorism Dynamics on Complex Networks: Group Polarization vs Social Integration -- From Criminal Spheres of Familiarity to Crime Networks -- Communication Probability Ratio in Weighted Phone Call Ego Networks -- NetSci High: Bringing Network Science Research to High Schools -- Terrorism Dynamics on Complex Networks: Group Polarization vs Social Integration -- From Criminal Spheres of Familiarity to Crime Networks -- Communication Probability Ratio in Weighted Phone Call Ego Networks -- NetSci High: Bringing Network Science Research to High Schools -- Terrorism Dynamics on Complex Networks: Group Polarization vs Social Integration -- From Criminal Spheres of Familiarity to Crime Networks.

Sommario/riassunto

Elucidating the spatial and temporal dynamics of how things connect has become one of the most important areas of research in the 21st century. Network science now pervades nearly every science domain, resulting in new discoveries in a host of dynamic social and natural systems, including: how neurons connect and communicate in the brain, how information percolates within and among social networks, the evolution of science research through co-authorship networks, the spread of epidemics, and many other complex phenomena. Over the past decade, advances in computational power have put the tools of network analysis in the hands of increasing numbers of scientists, enabling more explorations of our world than ever before possible. Information science, social sciences, systems biology, ecosystems ecology, neuroscience and physics all benefit from this movement, which combines graph theory with data sciences to develop and validate theories about the world around us. This book brings together cutting-edge research from the network science field and includes diverse and interdisciplinary topics such as: modeling the structure of urban systems, behavior in social networks, education and learning, data network architecture, structure and dynamics of organizations, crime and terrorism, as well as network topology, modularity and community detection.