Complex Networks V [Proceedings of the 5th Workshop on Complex Networks CompleNet 2014 /

Contucci, Pierluigi,
ed. lit
Menezes, Ronaldo,
ed. lit
Omicini, Andrea,
ed. lit
Poncela Casasnovas, Julia,
ed. lit

Springer International Publishing,
2014

Engineering | Biomedical engineering | Computational Intelligence | Biomedical Engineering and Bioengineering

Monografía

A network is a mathematical object consisting of a set of pointsthat are connected to each other in somefashion by lines. It turns out thissimple descriptioncorresponds to a bewildering array of systems in the real world, ranging from technological ones such as the Internet and WorldWide Web, biological networks such as that of connections of thenervous systems, food webs, or protein interactions,infrastructural systems such as networks of roads, airports or the power-grid,to patterns of social and professional relationships such as friendship, sex partners, network ofHollywood actors, co-authorship networks and many more. Recent years have witnessed a substantial amount of interest within thescientific community in the properties of these networks. The emergenceof the internet in particular, coupled with the widespread availability ofinexpensive computing resources has facilitated studies ranging fromlarge scale empirical analysis of networks in the real world, to the developmentof theoretical models and tools to explore the various properties of these systems.The study of networks is broadly interdisciplinary and central developments haveoccurred in many fields, including mathematics, physics, computer and informationsciences, biology, and the social sciences. This book brings together a collectionof cutting-edge research in the field from adiversearray of researchers ranging fromphysicists to social scientists, and presents them in acoherent fashion, highlighting thestrong interconnections between the different areas. Topicsincluded are social networks and social media, opinion and innovation diffusion, biological and health-related networks, language networks, as well as network theory, community detection, or growth models for Complex Networks

Título: Complex Networks V Recurso electrónico] Proceedings of the 5th Workshop on Complex Networks CompleNet 2014 edited by Pierluigi Contucci, Ronaldo Menezes, Andrea Omicini, Julia Poncela-Casasnovas

Editorial: Cham Springer International Publishing Imprint: Springer 2014

Editorial: Cham Springer International Publishing 2014

Descripción física: X, 330 p. 94 il., 78 il. col

Mención de serie: Studies in Computational Intelligence 549

Nota general: Bibliographic Level Mode of Issuance: Monograph

Bibliografía: Includes bibliographical references and index

Contenido: Social networks, social media and the arts -- Diffusion, transportation and search on networks -- Network theory, structure, growth and community detection -- Biological and health-related networks -- Language networks and science of science

Lengua: English

ISBN: 9783319054018 9783319054025 9783319054001 9783319349831

Materia: Engineering Biomedical engineering Computational Intelligence Biomedical Engineering and Bioengineering

Autores: Contucci, Pierluigi, ed. lit Menezes, Ronaldo, ed. lit Omicini, Andrea, ed. lit Poncela Casasnovas, Julia, ed. lit

Enlace a formato físico adicional: 3-319-05400-7

Punto acceso adicional serie-Título: Studies in Computational Intelligence 549