

Universal patterns in egocentric communication networks

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Tie strengths in social networks are heterogeneous, with strong and weak ties playing different roles at the network and individual levels. Egocentric networks, networks of relationships around an individual, exhibit few strong ties and more weaker ties, as evidenced by electronic communication records. Mobile phone data has also revealed persistent individual differences within this pattern. However, the generality and driving mechanisms of social tie strength heterogeneity remain unclear. Here, we study tie strengths in egocentric networks across multiple datasets of interactions between millions of people during months to years. We find universality in tie strength distributions and their individual-level variation across communication modes, even in channels not reflecting offline social relationships. Via a simple model of egocentric network evolution, we show that the observed universality arises from the competition between cumulative advantage and random choice, two tie reinforcement mechanisms whose balance determines the diversity of tie strengths. Our results provide insight into the driving mechanisms of tie strength heterogeneity in social networks and have implications for the understanding of social network structure and individual behavior.

Social networks are key to the exchange of ideas, norms, and other cultural constructs in human society¹, influencing the way we communicate², support each other^{3,4}, and form enduring communities⁵. Decades of research have focused on regularities in the patterns of relations among individuals⁶ as well as the drivers and mechanisms behind their origin⁷. One particularly prominent feature of social networks is the diversity of tie strengths⁸, where strong ties are typically embedded within social groups while weak ties are crucial for the cohesiveness of the network as a whole^{9–11}. At the micro level, ego networks—the sets of social ties between an individual (the ego) and their family, friends, and acquaintances (the alters)—commonly feature a small core of close relationships. These close relationships are associated with high emotional intensity and they are surrounded by a larger number of weaker ties. The emergence of this characteristic structural pattern has been associated with

constraints on maintaining social relationships, which include limited information processing capacity¹², social cognition^{13–15}, and time availability^{16–17}.

Studies of human communication via mobile phones have shown that in line with the above picture, there is a consistent, general pattern in egocentric networks where a small number of close alters receive a disproportionately large share of communication. Data on the frequency of mobile phone calls and text messages also indicate that within this general pattern, there are clear and persistent individual differences^{18–22}: some people repeatedly focus most of their attention on a few close relationships, while others tend to distribute communication among their alters more evenly²³. These differences are stable in time even under high personal network turnover. However, the mechanisms that generate such heterogeneity of tie strengths, its individual-level variation, and the generality of this pattern beyond

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Using Egocentric Networks To Understand Communication

France Bélanger



Using Egocentric Networks To Understand Communication:

Management in Marketing Communications, 2024-10-09 This book provides a comprehensive overview of the essential topics in the field of management in marketing communication. These substantial topics are examined and addressed by scholars from the marketing and management discipline. Beginning with the role of culture as a crucial element in marketing communication, the book delves into various matters within the scope of marketing communication. Consequently, social media and its significance in modern marketing strategies are examined together with the topic of transition from offline to online marketing, emphasizing the impact of accelerated digitalization and its onset during the third decade of the twenty-first century. Furthermore, the book discusses the rapid digital transformation stimulated by the COVID-19 pandemic and thus creates room for further exploration and research. Throughout the book, the evolving dynamics of marketing communication in a digitalized world are examined, providing a resource base for scholars conducting research in the context of modern marketing management.

Computational Social Network Analysis Ajith Abraham, Aboul-Ella Hassanien, Vaclav Snášel, 2009-12-10 Social networks provide a powerful abstraction of the structure and dynamics of diverse kinds of people or people to technology interaction. Web 2.0 has enabled a new generation of web-based communities, social networks, and folksonomies to facilitate collaboration among different communities. This unique text/reference compares and contrasts the ethological approach to social behavior in animals with web-based evidence of social interaction, perceptual learning, information granulation, the behavior of humans, and affinities between web-based social networks. An international team of leading experts present the latest advances of various topics in intelligent social networks and illustrates how organizations can gain competitive advantages by applying the different emergent techniques in real-world scenarios. The work incorporates experience reports, survey articles, and intelligence techniques and theories with specific network technology problems.

Topics and Features Provides an overview of social network tools and explores methods for discovering key players in social networks; designing self-organizing search systems and clustering blog sites; surveys techniques for exploratory analysis and text mining of social networks; approaches to tracking online community interaction and examines how the topological features of a system affect the flow of information; reviews the models of network evolution covering scientific co-citation networks; nature-inspired frameworks; latent social networks in e-Learning systems and compound communities; examines the relationship between the intent of web pages, their architecture, and the communities who take part in their usage and creation; discusses team selection based on members' social context; presents social network applications including music recommendation and face recognition in photographs; explores the use of social networks in web services that focus on the discovery stage in the life cycle of these web services. This useful and comprehensive volume will be indispensable to senior undergraduate and postgraduate students taking courses in Social Intelligence as well as to researchers, developers, and postgraduates interested in intelligent social networks research and related areas.

Evolutionary Algorithms, Swarm Dynamics and Complex Networks Ivan Zelinka, Guanrong Chen, 2017-11-25 Evolutionary algorithms constitute a class of well known algorithms which are designed based on the Darwinian theory of evolution and Mendelian theory of heritage They are partly based on random and partly based on deterministic principles Due to this nature it is challenging to predict and control its performance in solving complex nonlinear problems Recently the study of evolutionary dynamics is focused not only on the traditional investigations but also on the understanding and analyzing new principles with the intention of controlling and utilizing their properties and performances toward more effective real world applications In this book based on many years of intensive research of the authors is proposing novel ideas about advancing evolutionary dynamics towards new phenomena including many new topics even the dynamics of equivalent social networks In fact it includes more advanced complex networks and incorporates them with the CMLs coupled map lattices which are usually used for spatiotemporal complex systems simulation and analysis based on the observation that chaos in CML can be controlled so does evolution dynamics All the chapter authors are to the best of our knowledge originators of the ideas mentioned above and researchers on evolutionary algorithms and chaotic dynamics as well as complex networks who will provide benefits to the readers regarding modern scientific research on related subjects Information Search, Integration, and Personalization

Dimitris Kotzinos, Dominique Laurent, Jean-Marc Petit, Nicolas Spyrtatos, Yuzuru Tanaka, 2017-10-01 This book constitutes the revised selected papers of the 11th International Workshop on Information Search Integration and Personalization ISIP 2016 held in Lyon France in November 2016 The 8 revised full papers presented were carefully reviewed and selected from 13 papers submitted to these post conference proceedings from 30 conference presentations The papers are organized in topical sections on exploratory analysis mobility data analysis and management of large data graphs

Ubiquitous Intelligence and Computing Zhiwen Yu, Ramiro Liscano, Guanlilng Chen, Daqing Zhang, Xingshe Zhou, 2010-10-05 Ubiquitous sensors devices networks and information are paving the way toward a smart world in which computational intelligence is distributed throughout the physical environment to provide reliable and relevant services to people This ubiquitous intelligence will change the computing landscape because it will enable new breeds of applications and systems to be developed and the realm of computing possibilities will be significantly extended By enhancing everyday objects with intelligence many tasks and processes could be simplified the physical spaces where people interact like workplaces and homes could become more efficient safer and more enjoyable Ubiquitous computing or pervasive computing uses these many smart things or u things to create smart environments services and applications A smart thing can be endowed with different levels of intelligence and may be c text aware active interactive reactive proactive assistive adaptive automated sentient perceptual cognitive autonomic and or thinking Research on ubiquitous intelligence is an emerging research field covering many disciplines A series of grand challenges exists to move from the current level of computing services to the smart world of adaptive and intelligent services Started in 2005 the series of UIC conferences has been held

in Taipei Nagasaki Three Gorges China Hong Kong Oslo and Brisbane The proceedings contain the papers presented at the 7th International Conference on Ubiquitous Intelligence and Computing UIC 2010 held in Xi an China October 26 29 2010 The conference was accompanied by six vibrant workshops on a variety of research challenges within the area of ubiquitous intelligence and computing *Advanced Data Mining and Applications* Ronghuai Huang,Qiang Yang,Jian Pei,João Gama,Xiaofeng Meng,Xue Li,2009-08-09 This volume contains the proceedings of the International Conference on Advanced Data Mining and Applications ADMA 2009 held in Beijing China during August 17 19 2009 We are pleased to have a very strong program Acceptance into the conference proceedings was extremely competitive From the 322 submissions from 27 countries and regions the Program Committee selected 34 full papers and 47 short papers for presentation at the conference and inclusion in the proceedings The contributed papers cover a wide range of data mining topics and a diverse spectrum of interesting applications The Program Committee worked very hard to select these papers through a rigorous review process and extensive discussion and finally composed a diverse and exciting program for ADMA 2009 An important feature of the main program was the truly outstanding keynote speakers program Edward Y Chang Director of Research Google China gave a talk titled Confucius and Its Intelligent Disciples Being right in the forefront of data mining applications to the world's largest knowledge and data base the Web Dr Chang scribed how Google's Knowledge Search product help to improve the scalability of machine learning for Web scale applications Charles X Ling a seasoned researcher in data mining from the University of Western Ontario Canada talked about his innovative applications of data mining and artificial intelligence to gifted child education *Networks, Network Effects and Technology Adoption* Catherine Tucker,2005 *Civic Participation, Community Networks, and News Media* Naewon Kang,2000 **Journal of Leisure Research** ,1991 *A Study Exploring the Kind of Articles Presented on the Front Page and the Kind of Articles E-mailed by Online Users on a News Website* Abhiyan Humane,2003 **Distributed Work Arrangements** France Bélanger,1997 *Proceedings of the National Academy of Sciences of the United States of America* National Academy of Sciences (U.S.),2007 **Handbook of Marriage and the Family** Marvin B. Sussman,Suzanne K. Steinmetz,1987-03-31 Majority of the contributions in this Handbook are from lesser known mid career professionals still directly involved in research More than 50 percent of the contributors are female Topics covered reflect current interdisciplinary directions in family study The first part is a survey of family history methodology and current theory Family diversity in ethnic and socioeconomic terms is addressed in specific chapters However awareness of this diversity is present throughout the more specialized chapters References are listed after each article A subject index is also included ISBN 0 306 41967 X 15 00 **Pathway to Piaget** Hugh Rosen,1977 *Library & Information Science Abstracts* ,2006 **The Jewish Social Service Quarterly** ,1996 Beginning with 1931 the Sept issue consists of the Proceedings of the conference *Connections* ,1993 **Doing Internet Research** Steve Jones,1999 Doing Internet Research examines the ways in which the Internet has commanded the public imagination and discusses the

methodological issues that arise when one tries to study and understand the social processes occurring within the Internet

Environment and Planning, 2008 **The Political Consequences of Social Capital** Ronald La Due Lake, 2000 The tradition of studying public opinion attitudes and political behavior is rooted in a sociological approach that regards these phenomena as the function of the social characteristics of discrete individuals Advances in the literature have developed the notion of citizens organizational and civic capacity yet remain analytically focused on the individual This dissertation presents a renewed sociological conceptualization that incorporates social interaction social networks and social capital into a framework that allows a citizens social connectedness or embeddedness to be an integral part of models of their political behavior Specifically this dissertation addresses the analytical utility of social capital for political science in three crucial areas of interest civic and political participation political attitudes and trust This research uniquely places the question of the political consequences of social capital in an analysis of networks of social interaction I focus on the characteristics of personal networks and the larger social environment in addition to individual traits in order to understand the enhancing effects of social capital on individually held characteristics such as education income and membership in organizations The central thesis of my work is that social capital the by product of social interaction that productively makes the achievement of certain ends that would not be attainable in its absence Coleman 1990 302 is mediated by the particular circumstances of a person s embeddedness in their larger social environment I demonstrate that the production of politically relevant social capital in citizens personal networks significantly predicts their engagement in civic and political activities using a method of directly measuring social capital as a resource for the individual Further I find evidence for the importance of analytically distinguishing trust as one type of social capital rather than as its sole definition I also explore the boundaries of the usefulness of the concept in terms of understanding the strength of basic political attitudes With this approach existing models of engagement are enhanced by understanding the specificities of the networks through which individuals are mobilized Verba Schlozman Brady 1995 134

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