Lecture Notes in Social Networks

Tansel Özyer Zeki Erdem Jon Rokne Suheil Khoury *Editors*

Mining Social Networks and Security Informatics



Nasrullah Memon, Reda Alhajj

Mining Social Networks and Security Informatics Tansel Özver, Zeki Erdem, Jon Rokne, Suheil Khoury, 2013-06-01 Crime terrorism and security are in the forefront of current societal concerns This edited volume presents research based on social network techniques showing how data from crime and terror networks can be analyzed and how information can be extracted The topics covered include crime data mining and visualization organized crime detection crime network visualization computational criminology aspects of terror network analyses and threat prediction including cyberterrorism and the related area of dark web privacy issues in social networks security informatics graph algorithms for social networks general aspects of social networks such as pattern and anomaly detection community discovery link analysis and spatio temporal network mining These topics will be of interest to researchers and practitioners in the general area of security informatics. The volume will also serve as a general reference for readers that would want to become familiar with current research in the fastgrowing field of cybersecurity Mining Intelligence and Knowledge Exploration Rajendra Prasath, Anil Kumar Vuppala, T. Kathirvalavakumar, 2016-01-02 This book constitutes the refereed proceedings of the Third International Conference on Mining Intelligence and Knowledge Exploration MIKE 2015 held in Hyderabad India in December 2015 The 48 full papers and 8 short papers presented together with 4 doctoral consortium papers were carefully reviewed and selected from 185 submissions. The papers cover a wide range of topics including information retrieval machine learning pattern recognition knowledge discovery classification clustering image processing network security speech processing natural language processing language cognition and computation fuzzy sets and business intelligence

Symbolic and Quantitative Approaches to Reasoning with Uncertainty Alessandro Antonucci, Laurence Cholvy, Odile Papini, 2017-07-03 This book constitutes the refereed proceedings of the 14th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2017 held in Lugano Switzerland in July 2017 The 44 revised full papers presented together with 5 abstracts of invited talks were carefully reviewed and selected from 63 submissions and cover topics on analogical reasoning argumentation Bayesian networks belief functions conditionals credal sets credal networks decision theory decision making and reasoning under uncertainty fuzzy sets fuzzy logic logics orthopairs possibilistic networks and probabilistic logics probabilistic reasoning Data Management, Analytics and Innovation Valentina Emilia Balas, Neha Sharma, Amlan Chakrabarti, 2018-08-09 The book presents the latest high quality technical contributions and research findings in the areas of data management and smart computing big data management artificial intelligence and data analytics along with advances in network technologies It discusses state of the art topics as well as the challenges and solutions for future development It includes original and previously unpublished international research work highlighting research domains from different perspectives This book is mainly intended for researchers and practitioners in academia and industry Disease Control Through Social Network Surveillance Thirimachos Bourlai, Panagiotis

Karampelas, Reda Alhaji, 2022-09-06 This book examines modern paradigms of disease control based on social network surveillance applications including electronic sentinel surveillance and wireless application based surveillance science It also highlights topics that integrate statistical and epidemiological sciences with surveillance practice and in order to reflect the evolution of social networking practices discusses topics concerning the challenges for surveillance theory and practice In turn the book goes a step further by providing insights on how we need to analyse epidemiological trends by following best practices on distinguishing useful information from noise namely fake news false reporting of disease incidents and events etc At the same time we need to be able to protect health focused applications and communication tools via cybersecurity technologies and to ensure that anonymity of reporting and privacy are preserved In closing the book discusses the role and impact of social media on disease surveillance as well as the current role of communities in infectious disease surveillance The Influence of Technology on Social Network Analysis and Mining Tansel Özyer, Jon Rokne, Gerhard and control Wagner, Arno H.P. Reuser, 2013-03-15 The study of social networks was originated in social and business communities In recent years social network research has advanced significantly the development of sophisticated techniques for Social Network Analysis and Mining SNAM has been highly influenced by the online social Web sites email logs phone logs and instant messaging systems which are widely analyzed using graph theory and machine learning techniques People perceive the Web increasingly as a social medium that fosters interaction among people sharing of experiences and knowledge group activities community formation and evolution This has led to a rising prominence of SNAM in academia politics homeland security and business This follows the pattern of known entities of our society that have evolved into networks in which actors are increasingly dependent on their structural embedding General areas of interest to the book include information science and mathematics communication studies business and organizational studies sociology psychology anthropology applied linguistics biology and medicine Security and Privacy Preserving in Social Networks Richard Chbeir, Bechara Al Bouna, 2013-10-17 This volume aims at assessing the current approaches and technologies as well as to outline the major challenges and future perspectives related to the security and privacy protection of social networks It provides the reader with an overview of the state of the art techniques studies and approaches as well as outlining future directions in this field A wide range of interdisciplinary contributions from various research groups ensures for a balanced and complete perspective

From Sociology to Computing in Social Networks Nasrullah Memon, Reda Alhajj, 2010-08-26 Important aspects of social networking analysis are covered in this work by combining experimental and theoretical research A specific focus is devoted to emerging trends and the industry needs associated with utilizing data mining techniques Some of the techniques covered include data mining advances in the discovery and analysis of communities in the personalization of solitary activities like searches and social activities like discovering potential friends in the analysis of user behavior in open for like conventional sites blogs and fora and in commercial platforms like e auctions and in the associated security and privacy

preservation challenges as well as social network modeling scalable customizable social network infrastructure construction and the identification and discovery of dynamic growth and evolution patterns using machine learning approaches or multi agent based simulation. These topics will be of interest to practitioners and researchers alike in this dynamic and growing The SAGE Handbook of Social Network Analysis John Scott, Peter J. Carrington, 2011-05-25 This sparkling field Handbook offers an unrivalled resource for those engaged in the cutting edge field of social network analysis Systematically it introduces readers to the key concepts substantive topics central methods and prime debates Among the specific areas covered are Network theory Interdisciplinary applications Online networks Corporate networks Lobbying networks Deviant networks Measuring devices Key Methodologies Software applications The result is a peerless resource for teachers and students which offers a critical survey of the origins basic issues and major debates. The Handbook provides a one stop guide that will be used by readers for decades to come Advances in Social Networks Analysis and Mining I-Hsien Ting, Reda Alhajj, Panagiotis Karampelas, Min-Yuh Day, 2025-06-10 This book explores the evolution of social network analysis and mining SNAM a field that originated in social and business communities but has expanded significantly in recent years The rise of online social platforms email logs phone records and instant messaging systems has driven the development of advanced techniques for analyzing social networks drawing heavily on graph theory and machine learning As the Web increasingly becomes a social medium it fosters human interaction the sharing of experiences and knowledge and the formation and evolution of communities This transformation has amplified the importance of SNAM in fields such as academia politics homeland security and business where understanding the complex relationships between networked actors is crucial This volume presents a comprehensive collection of cutting edge research and developments in SNAM offering a valuable resource for researchers and practitioners seeking to deepen their understanding of social networks and their applications

Big Data and Social Media Analytics Mehmet Çakırtaş, Mehmet Kemal Ozdemir, 2021-07-05 This edited book provides techniques which address various aspects of big data collection and analysis from social media platforms and beyond It covers efficient compression of large networks link prediction in hashtag graphs visual exploration of social media data identifying motifs in multivariate data social media surveillance to enhance search and rescue missions recommenders for collaborative filtering and safe travel plans to high risk destinations analysis of cyber influence campaigns on YouTube impact of location on business rating bibliographical and co authorship network analysis and blog data analytics All these trending topics form a major part of the state of the art in social media and big data analytics Thus this edited book may be considered as a valuable source for readers interested in grasping some of the most recent advancements in this high trending domain Darkweb Cyber Threat Intelligence Mining John Robertson, 2017-04-04 This book describes techniques and results in cyber threat intelligence from the center of the malicious hacking underworld the dark web Handbook of Social Network Technologies and Applications Borko Furht, 2010-11-04 Social networking is a concept that has existed for a

long time however with the explosion of the Internet social networking has become a tool for people to connect and communicate in ways that were impossible in the past The recent development of Web 2 0 has provided many new applications such as Myspace Facebook and LinkedIn The purpose of Handbook of Social Network Technologies and Applications is to provide comprehensive guidelines on the current and future trends in social network technologies and applications in the field of Web based Social Networks This handbook includes contributions from world experts in the field of social networks from both academia and private industry A number of crucial topics are covered including Web and software technologies and communication technologies for social networks Web mining techniques visualization techniques intelligent social networks Semantic Web and many other topics are covered Standards for social networks case studies and a variety of applications are covered as well **Intelligence and Security Informatics** Sharad Mehrotra, 2006-05-11 This book constitutes the refereed proceedings of the IEEE International Conference on Intelligence and Security Informatics ISI 2006 Gathers 39 revised full papers 30 revised short papers and 56 extended poster abstracts organized in topical sections including intelligence analysis and knowledge discovery access control privacy and cyber trust surveillance and emergency response infrastructure protection and cyber security terrorism informatics and countermeasures surveillance bioterrorism and emergency response Handbook of Research on Foundations and Applications of Intelligent Business Analytics Sun, Zhaohao, Wu, Zhiyou, 2022-03-11 Intelligent business analytics is an emerging technology that has become a mainstream market adopted broadly across industries organizations and geographic regions Intelligent business analytics is a current focus for research and development across academia and industries and must be examined and considered thoroughly so businesses can apply the technology appropriately The Handbook of Research on Foundations and Applications of Intelligent Business Analytics examines the technologies and applications of intelligent business analytics and discusses the foundations of intelligent analytics such as intelligent mining intelligent statistical modeling and machine learning Covering topics such as augmented analytics and artificial intelligence systems this major reference work is ideal for scholars engineers professors practitioners researchers industry professionals academicians and students **Mining Massive Data** Sets for Security Françoise Fogelman-Soulié, Jakub Piskorski, Ralf Steinberger, 2008-10-15 The real power for security applications will come from the synergy of academic and commercial research focusing on the specific issue of security Special constraints apply to this domain which are not always taken into consideration by academic research but are critical for successful security applications large volumes techniques must be able to handle huge amounts of data and perform on line computation scalability algorithms must have processing times that scale well with ever growing volumes automation the analysis process must be automated so that information extraction can run on its own ease of use everyday citizens should be able to extract and assess the necessary information and robustness systems must be able to cope with data of poor quality missing or erroneous data The NATO Advanced Study Institute ASI on Mining Massive Data Sets for Security held in Italy

September 2007 brought together around ninety participants to discuss these issues This publication includes the most important contributions but can of course not entirely reflect the lively interactions which allowed the participants to exchange their views and share their experience The bridge between academic methods and industrial constraints is systematically discussed throughout This volume will thus serve as a reference book for anyone interested in understanding the techniques for handling very large data sets and how to apply them in conjunction for solving security issues

Intelligence and Security Informatics Paul Kantor, Gheorghe Muresan, Fred Roberts, Daniel Zeng, Frei-Yue Wang, Hsinchun Chen, Ralph Merkle, 2005-04-25 Intelligence and security informatics ISI can be broadly defined as the study of the development and use of advanced information technologies and systems for national and international security related applications through an integrated technological organizational and policy based approach In the past few years ISI research has experienced tremendous growth and attracted substantial interest from academic researchers in related fields as well as practitioners from both government agencies and industry The first two meetings ISI 2003 and ISI 2004 in the ISI symposium and conference series were held in Tucson Arizona in 2003 and 2004 respectively They provided a stimulating intellectual forum for discussion among previously disparate communities academic researchers in information technologies computer science public policy and social studies local state and federal law enforcement and intelligence experts and information technology industry consultants and practitioners Building on the momentum of these ISI meetings and with sponsorship by the IEEE we held the IEEE International Conference on Intelligence and Security Informatics ISI 2005 in May 2005 in Atlanta Georgia In addition to the established and emerging ISI research topics covered at past ISI meetings ISI 2005 included a new track on Terrorism Informatics which is a new stream of terrorism research leveraging the latest advances in social science methodologies and information technologies and tools ISI 2005 was jointly hosted by Rutgers the State University of New Jersey the University of Arizona UA and the Georgia Institute of Technology GATECH Language Processing for Social Media, Second Edition Atefeh Farzindar, Diana Inkpen, 2017-12-15 In recent years online social networking has revolutionized interpersonal communication The newer research on language analysis in social media has been increasingly focusing on the latter's impact on our daily lives both on a personal and a professional level Natural language processing NLP is one of the most promising avenues for social media data processing It is a scientific challenge to develop powerful methods and algorithms which extract relevant information from a large volume of data coming from multiple sources and languages in various formats or in free form We discuss the challenges in analyzing social media texts in contrast with traditional documents Research methods in information extraction automatic categorization and clustering automatic summarization and indexing and statistical machine translation need to be adapted to a new kind of data This book reviews the current research on NLP tools and methods for processing the non traditional information from social media data that is available in large amounts big data and shows how innovative NLP approaches can integrate appropriate linguistic

information in various fields such as social media monitoring healthcare business intelligence industry marketing and security and defence We review the existing evaluation metrics for NLP and social media applications and the new efforts in evaluation campaigns or shared tasks on new datasets collected from social media Such tasks are organized by the Association for Computational Linguistics such as SemEval tasks or by the National Institute of Standards and Technology via the Text REtrieval Conference TREC and the Text Analysis Conference TAC In the concluding chapter we discuss the importance of this dynamic discipline and its great potential for NLP in the coming decade in the context of changes in mobile technology cloud computing virtual reality and social networking In this second edition we have added information about recent progress in the tasks and applications presented in the first edition We discuss new methods and their results The number of research projects and publications that use social media data is constantly increasing due to continuously growing amounts of social media data and the need to automatically process them We have added 85 new references to the more than 300 references from the first edition Besides updating each section we have added a new application digital marketing to the section on media monitoring and we have augmented the section on healthcare applications with an extended discussion of recent research on detecting signs of mental illness from social media **Emerging Trends in** Cybersecurity Applications Kevin Daimi, Abeer Alsadoon, Cathryn Peoples, Nour El Madhoun, 2022-11-18 This book provides an essential compilation of relevant and cutting edge academic and industry work on key cybersecurity applications topics Further it introduces cybersecurity applications to the public at large to develop their cybersecurity applications knowledge and awareness The book concentrates on a wide range of advances related to Cybersecurity Applications which include among others applications in the areas of Data Science Internet of Things Artificial Intelligence Robotics Web High Tech Systems Cyber Physical Systems Mobile Devices Digital Media and Cloud Computing It introduces the concepts techniques methods approaches and trends needed by cybersecurity application specialists and educators for keeping current their cybersecurity applications knowledge Further it provides a glimpse of future directions where cybersecurity applications are headed The book can be a valuable resource to applied cybersecurity experts towards their professional development efforts and to students as a supplement to their cybersecurity courses *Soft Computing and Signal Processing* V. Sivakumar Reddy, V. Kamakshi Prasad, Jiacun Wang, K.T.V. Reddy, 2022-02-15 This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Fourth International Conference on Soft Computing and Signal Processing ICSCSP 2021 The book covers topics such as soft sets rough sets fuzzy logic neural networks genetic algorithms and machine learning and discusses various aspects of these topics e g technological considerations product implementation and application issues

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