

# Data Mining Tools for Malware Detection



Mehedy Masud, Latifur Khan,  
and Bhavani Thuraisingham



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# Data Mining Tools For Malware Detection

**Bhavani Thuraisingham, Tyrone  
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Kantarcioglu, Vaibhav Khadilkar**

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Bhavani Thuraisingham, Murat Kantarcioglu, Latifur Khan, 2022-04-27 Secure data science which integrates cyber security and data science is becoming one of the critical areas in both cyber security and data science This is because the novel data science techniques being developed have applications in solving such cyber security problems as intrusion detection malware analysis and insider threat detection However the data science techniques being applied not only for cyber security but also for every application area including healthcare finance manufacturing and marketing could be attacked by malware Furthermore due to the power of data science it is now possible to infer highly private and sensitive information from public data which could result in the violation of individual privacy This is the first such book that provides a comprehensive overview of integrating both cyber security and data science and discusses both theory and practice in secure data science After an overview of security and privacy for big data services as well as cloud computing this book describes applications of data science for cyber security applications It also discusses such applications of data science as malware analysis and insider threat detection Then this book addresses trends in adversarial machine learning and provides solutions to the attacks on the data science techniques In particular it discusses some emerging trends in carrying out trustworthy analytics so that the analytics techniques can be secured against malicious attacks Then it focuses on the privacy threats due to the collection of massive amounts of data and potential solutions Following a discussion on the integration of services computing including cloud based services for secure data science it looks at applications of secure data science to information sharing and social media This book is a useful resource for researchers software developers educators and managers who want to understand both the high level concepts and the technical details on the design and implementation of secure data science based systems It can also be used as a reference book for a graduate course in secure data science Furthermore this book provides numerous references that would be helpful for the reader to get more details about secure data science

**Proceedings of the International Conference on Sensors and Microsystems** Manish Tiwari, Ghanshyam

Singh, Tawfik Ismail, Neha Singh, 2025-08-09 This book constitutes peer reviewed proceedings of the 1st International Conference on Sensors and Microsystems ICSM 2024 This book discusses the latest technological advancements in designing and implementing sensors and microsystems The book is a unique collection of chapters from different areas with a common theme The book covers a broad range of topics relating to sensors and microsystems which includes physics chemistry and materials science of the sensors and sensor applications in biomedical optoelectronic systems control and verification automated systems human computer interface etc with tailored intelligence to make a transformative impact on the economy industry and society It is beneficial for academic researchers and practitioners in the industry who work in this field

*Secure Data Provenance and Inference Control with Semantic Web* Bhavani Thuraisingham, Tyrone Cadenhead, Murat Kantarcioglu, Vaibhav Khadilkar, 2014-08-01 This book supplies step by step instructions on how to secure the provenance of data to make sure it is safe from inference attacks It details the design and implementation of a policy engine for provenance of data and presents case studies that illustrate solutions in a typical distributed health care system for hospitals Although the case studies describe solutions in the health care domain the methods presented in the book are applicable to a range of other domains

*Advanced Data Mining Tools and Methods for Social Computing* Sourav De, Sandip Dey, Siddhartha Bhattacharyya, Surbhi Bhatia Khan, 2022-01-14 Advanced Data Mining Tools and Methods for Social Computing explores advances in the latest data mining tools methods algorithms and the architectures being developed specifically for social computing and social network analysis The book reviews major emerging trends in technology that are supporting current advancements in social networks including data mining techniques and tools It also aims to highlight the advancement of conventional approaches in the field of social networking Chapter coverage includes reviews of novel techniques and state of the art advances in the area of data mining machine learning soft computing techniques and their applications in the field of social network analysis Provides insights into the latest research trends in social network analysis Covers a broad range of data mining tools and methods for social computing and analysis Includes practical examples and case studies across a range of tools and methods Features coding examples and supplementary data sets in every chapter

*Analyzing and Securing Social Networks* Bhavani Thuraisingham, Satyen Abrol, Raymond Heatherly, Murat Kantarcioglu, Vaibhav Khadilkar, Latifur Khan, 2016-04-06 Analyzing and Securing Social Networks focuses on the two major technologies that have been developed for online social networks OSNs i data mining technologies for analyzing these networks and extracting useful information such as location demographics and sentiments of the participants of the network and ii security and privacy technology

**Computer Network Security** Igor Kottenko, Victor Skormin, 2012-10-10 This book constitutes the refereed proceedings of the 6th International Conference on Mathematical Methods Models and Architectures for Computer Network Security MMM ACNS 2012 held in St Petersburg Russia in October 2012 The 14 revised full papers and 8 revised short presentations were carefully reviewed and selected from a total of 44 submissions The papers are organized in topical sections on applied

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