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Autore	Gao Longxiang
Titolo	Privacy-preserving in edge computing / / Longxiang Gao [and four others]
Pubbl/distr/stampa	Gateway East, Singapore : , : Springer, , [2021] ©2021
ISBN	981-16-2199-3
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XII, 113 p. 59 illus., 39 illus. in color.)
Collana	Wireless Networks, , 2366-1186
Disciplina	005.365
Soggetti	Application software
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 An Introduction to Edge Computing -- Chapter 2 Privacy Issues in Edge Computing.-Chapter 3 Context-Aware Privacy-Preserving in Edge Computing -- Chapter 4 Location-Aware Privacy Preserving in Edge Computing -- Chapter 5 Blockchain based Decentralized Privacy Preserving in Edge Computing -- Chapter 6 Conclusion and Future Research Issues.
Sommario/riassunto	With the rapid development of big data, it is necessary to transfer the massive data generated by end devices to the cloud under the traditional cloud computing model. However, the delays caused by massive data transmission no longer meet the requirements of various real-time mobile services. Therefore, the emergence of edge computing has been recently developed as a new computing paradigm that can collect and process data at the edge of the network, which brings significant convenience to solving problems such as delay, bandwidth, and off-loading in the traditional cloud computing paradigm. By extending the functions of the cloud to the edge of the network, edge computing provides effective data access control, computation, processing and storage for end devices. Furthermore, edge computing optimizes the seamless connection from the cloud to devices, which is considered the foundation for realizing the interconnection of everything. However, due to the open features of edge computing, such as content awareness, real-time computing and parallel processing, the existing problems of privacy in the edge

computing environment have become more prominent. The access to multiple categories and large numbers of devices in edge computing also creates new privacy issues. In this book, we discuss on the research background and current research process of privacy protection in edge computing. In the first chapter, the state-of-the-art research of edge computing are reviewed. The second chapter discusses the data privacy issue and attack models in edge computing. Three categories of privacy preserving schemes will be further introduced in the following chapters. Chapter three introduces the context-aware privacy preserving scheme. Chapter four further introduces a location-aware differential privacy preserving scheme. Chapter five presents a new blockchain based decentralized privacy preserving in edge computing. Chapter six summarize this monograph and propose future research directions. In summary, this book introduces the following techniques in edge computing: 1) describe an MDP-based privacy-preserving model to solve context-aware data privacy in the hierarchical edge computing paradigm; 2) describe a SDN based clustering methods to solve the location-aware privacy problems in edge computing; 3) describe a novel blockchain based decentralized privacy-preserving scheme in edge computing. These techniques enable the rapid development of privacy-preserving in edge computing. .

2. Record Nr.	UNINA9910830597503321
Autore	Sokolowski John A. <1953->
Titolo	Modeling and simulation for analyzing global events [[electronic resource] /] / John A. Sokolowski, Catherine M. Banks
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2009
ISBN	1-282-23708-X 9786612237089 0-470-48699-6 0-470-48698-8
Descrizione fisica	1 online resource (221 p.)
Altri autori (Persone)	BanksCatherine M. <1960->
Disciplina	001.4
Soggetti	Event history analysis Event history analysis - Computer simulation History - Mathematical models Social sciences - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	MODELING AND SIMULATION FOR ANALYZING GLOBAL EVENTS; CONTENTS; Preface; I PRINCIPLES OF MODELING AND SIMULATION: ADVANCING GLOBAL STUDIES; 1 Modeling and Simulation: What, When, and Why; Introduction; An Overview of Modeling and Simulation; A Brief History of Modeling and Simulation; Why Use Modeling and Simulation; Conclusions; Key Terms; References; Further Reading; 2 Research Methodologies for Modeling Global Events; Introduction; Global Events and the Social Sciences; Qualitative and Quantitative Research; Modeling and Simulation of Global Events; Mapping Data: A Suggested Methodology Model Validation Conclusions; Key Terms; References; II MODELING PARADIGMS; 3 System Dynamics; Introduction; Dynamic System Behavior; Building Blocks of System Dynamics Models; Conclusions; Key Terms; References; 4 Agent-Based Modeling and Social Networks; Introduction; Agent-Based Models: Description and Definition; Social Networks; Building an Agent-Based Model; Conclusions; Key Terms; References; 5 Game Theory; Introduction; Fundamentals of Game

Theory; Types of Games; Conclusions; Key Terms; References; III
MODELING GLOBAL EVENTS; 6 Case Study: Colombia-A Country Study
of Insurgency

IntroductionDeveloping the Research Question and Methodology;
Background: Qualitative Research; Mapping Qualitative to Quantitative;
System Dynamics; Responding to the Research Question; Key Terms;
References; Case Study Bibliography; 7 Case Study: The Polish Solidarity
Movement-Laying the Foundation for the Collapse of Soviet
Communism; Introduction; Developing the Research Question and
Methodology; Background: Qualitative Research; Measuring Agents and
Environments: Stimuli and Actions; Modeling Human Behavior with
Agents; Responding to the Research Question; Conclusions; Key Terms
ReferencesCase Study Bibliography; 8 Case Study: Vietnam-Johnson's
War, 1963-1965; Introduction; Developing the Research Question and
Methodology; Background: Qualitative Research; Analyzing the Social
Network Structures; Social Network Aspects of Human Behavior
Modeling; Agent-Based Model Development; Responding to the
Research Question; Key Terms; References; Case Study Bibliography; 9
Case Study: Cuban Missile Crisis-A National Security Emergency;
Introduction; Developing the Research Question and Methodology;
Background: Qualitative Research; Evaluating Behaviors; Game Theory
Responding to the Research QuestionKey Terms; References; Case
Study Bibliography; Index

Sommario/riassunto

one-of-a-kind introduction to the theory and application of modeling
and simulation techniques in the realm of international studies
Modeling and Simulation for Analyzing Global Events provides an
orientation to the theory and application of modeling and simulation
techniques in social science disciplines. This book guides readers in
developing quantitative and numeric representations of real-world
events based on qualitative analysis. With an emphasis on gathering
and mapping empirical data, the authors detail the steps needed for
accurately analyzing global events and outline
