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Cyber Foraging

Bridging Mobile and Cloud Computing

Jason Flinn

***SYNTHESIS LECTURES ON
MOBILE AND PERVASIVE COMPUTING***

Mahadev Satyanarayanan, Series Editor

Cyber Foraging Bridging Mobile And Cloud Computing

Jason Flinn

Abhinav Mehrotra, Mirco Musolesi



Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn:

Cyber Foraging Jason Flinn,2022-06-01 This lecture provides an introduction to cyber foraging a topic that lies at the intersection of mobile and cloud computing Cyber foraging dynamically augments the computing resources of mobile computers by opportunistically exploiting fixed computing infrastructure in the surrounding environment In a cyber foraging system applications functionality is dynamically partitioned between the mobile computer and infrastructure servers that store data and execute computation on behalf of mobile users The location of application functionality changes in response to user mobility platform characteristics and variation in resources such as network bandwidth and CPU load Cyber foraging also introduces a new surrogate computing tier that lies between mobile users and cloud data centers Surrogates are wired infrastructure servers that offer much greater computing resources than those offered by small battery powered mobile devices Surrogates are geographically distributed to be as close as possible to mobile computers so that they can provide substantially better response time to network requests than that provided by servers in cloud data centers For instance surrogates may be co located with wireless hotspots in coffee shops airport lounges and other public locations This lecture first describes how cyber foraging systems dynamically partition data and computation It shows how dynamic partitioning can often yield better performance energy efficiency and application quality than static thin client or thick client approaches for dividing functionality between cloud and mobile computers The lecture then describes the design of the surrogate computing tier It shows how strong isolation can enable third party computers to host computation and store data on behalf of nearby mobile devices It then describes how surrogates can provide reasonable security and privacy guarantees to the mobile computers that use them The lecture concludes with a discussion of data staging in which surrogates temporarily store data in transit between cloud servers and mobile computers in order to improve transfer bandwidth and energy efficiency Table of Contents Introduction Partitioning Management Security and Privacy Data Staging Challenges and Opportunities

Cyber Foraging Jason Flinn,2012 This lecture provides an introduction to cyber foraging a topic that lies at the intersection of mobile and cloud computing Cyber foraging dynamically augments the computing resources of mobile computers by opportunistically exploiting fixed computing infrastructure in the surrounding environment In a cyber foraging system applications functionality is dynamically partitioned between the mobile computer and infrastructure servers that store data and execute computation on behalf of mobile users The location of application functionality changes in response to user mobility platform characteristics and variation in resources such as network bandwidth and CPU load Cyber foraging also introduces a new surrogate computing tier that lies between mobile users and cloud data centers Surrogates are wired infrastructure servers that offer much greater computing resources than those offered by small battery powered mobile devices Surrogates are geographically distributed to be as close as possible to mobile computers so that they can provide substantially better response time to network requests than that provided by servers in cloud data centers For instance

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Privacy in Mobile and Pervasive Computing Marc Langheinrich, Florian Schaub, 2022-05-31 It is easy to imagine that a future populated with an ever increasing number of mobile and pervasive devices that record our minute goings and doings will significantly expand the amount of information that will be collected stored processed and shared about us by both corporations and governments The vast majority of this data is likely to benefit us greatly making our lives more convenient efficient and safer through custom tailored and context aware services that anticipate what we need where we need it and when we need it But beneath all this convenience efficiency and safety lurks the risk of losing control and awareness of what is known about us in the many different contexts of our lives Eventually we may find ourselves in a situation where something we said or did will be misinterpreted and held against us even if the activities were perfectly innocuous at the time Even more concerning privacy implications rarely manifest as an explicit tangible harm Instead most privacy harms manifest as an absence of opportunity which may go unnoticed even though it may substantially impact our lives In this Synthesis Lecture we dissect and discuss the privacy implications of mobile and pervasive computing technology For this purpose we not only look at how mobile and pervasive computing technology affects our expectations of and ability to enjoy privacy but also look at what constitutes privacy in the first place and why we should care about maintaining it We describe key characteristics of mobile and pervasive computing technology and how those characteristics lead to privacy implications We discuss seven approaches that can help support end user privacy in the design of mobile and pervasive computing technologies and set forward six challenges that will need to be addressed by future research The prime target audience of this lecture are researchers and practitioners working in mobile and pervasive computing who want to better understand and account for the nuanced privacy implications of the technologies they are creating Those new to either mobile and pervasive computing or privacy may also benefit from reading this book to gain an overview and deeper understanding of this highly interdisciplinary and dynamic field

Mobile User Research Sunny Consolvo, Frank R. Bentley, Eric B. Hekler, Sayali S. Phatak, 2022-06-01 This book will give you a practical overview of several methods and

approaches for designing mobile technologies and conducting mobile user research including how to understand behavior and evaluate how such technologies are being or may be used out in the world Each chapter includes case studies from our own work and highlights advantages limitations and very practical steps that should be taken to increase the validity of the studies you conduct and the data you collect This book is intended as a practical guide for conducting mobile research focused on the user and their experience We hope that the depth and breadth of case studies presented as well as specific best practices will help you to design the best technologies possible and choose appropriate methods to gather ethical reliable and generalizable data to explore the use of mobile technologies out in the world

Intelligent Notification Systems Abhinav Mehrotra, Mirco Musolesi, 2022-06-01 Notifications provide a unique mechanism for increasing the effectiveness of real time information delivery systems However notifications that demand users attention at inopportune moments are more likely to have adverse effects and might become a cause of potential disruption rather than proving beneficial to users In order to address these challenges a variety of intelligent notification mechanisms based on monitoring and learning users behavior have been proposed The goal of such mechanisms is maximizing users receptivity to the delivered information by automatically inferring the right time and the right context for sending a certain type of information This book presents an overview of the current state of the art in the area of intelligent notification mechanisms that rely on the awareness of users context and preferences We first present a survey of studies focusing on understanding and modeling users interruptibility and receptivity to notifications from desktops and mobile devices Then we discuss the existing challenges and opportunities in developing mechanisms for intelligent notification systems in a variety of application scenarios

Pervasive Displays Nigel Davies, Sarah Clinch, Florian Alt, 2022-05-31 Fueled by falling display hardware costs and rising demand digital signage and pervasive displays are becoming ever more ubiquitous Such systems have traditionally been used for advertising and information dissemination with digital signage commonplace in shopping malls airports and public spaces While advertising and broadcasting announcements remain important applications developments in sensing and interaction technologies are enabling entirely new classes of display applications that tailor content to the situation and audience of the display As a result signage systems are beginning to transition from simple broadcast systems to rich platforms for communication and interaction In this lecture we provide an introduction to this emerging field for researchers and practitioners interested in creating state of the art pervasive display systems We begin by describing the history of pervasive display research providing illustrations of key systems from pioneering work on supporting collaboration to contemporary systems designed for personalized information delivery We then consider what the near future might hold for display networks describing a series of compelling applications that are being postulated for future display networks Creating such systems raises a wide range of challenges and requires designers to make a series of important trade offs We dedicate four chapters to key aspects of pervasive display design audience engagement display interaction system software

and system evaluation These chapters provide an overview of current thinking in each area Finally we present a series of case studies of display systems and our concluding remarks

Cyber Foraging: Bridging Mobile And Flinn, 2012 This lecture provides an introduction to cyber foraging a topic that lies at the intersection of mobile and cloud computing Cyber foraging dynamically augments the computing resources of mobile computers by opportunistically exploiting fixed computing infrastructure in the surrounding environment In a cyber foraging system applications functionality is dynamically partitioned between the mobile computer and infrastructure servers that store data and execute computation on behalf of mobile users The location of application functionality changes in response to user mobility platform characteristics and variation in resources such as network bandwidth and CPU load Cyber foraging also introduces a new surrogate computing tier that lies between mobile users and cloud data centers Surrogates are wired infrastructure servers that offer much greater computing resources than those offered by small battery powered mobile devices Surrogates are geographically distributed to be as close as possible to mobile computers so that they can provide substantially better response time to network requests than that provided by servers in cloud data centers For instance surrogates may be co located with wireless hotspots in coffee shops airport lounges and other public locations

Simplifying Cyber Foraging Rajesh Krishna Balan, 2006

The Enigmatic Realm of **Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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