

# Cyber Foraging

Bridging Mobile and Cloud Computing

Jason Flinn

Synthesis Lectures on Mobile and Pervasive Computing

Mahadev Satyanarayanan, Series Editor

## <u>Cyber Foraging Bridging Mobile And Cloud Computing</u> <u>Jason Flinn</u>

**KJ Lindholm-Leary** 

#### **Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn:**

**Cyber Foraging** Jason Flinn, 2012-06-01 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 **Cyber Foraging** Jason Flinn, 2012 This lecture provides an introduction to cyber foraging a topic that lies Opportunities 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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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 ubiguitous 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

This book delves into Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn. Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn, encompassing both the fundamentals and more intricate discussions.

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  - ∘ Chapter 5: Conclusion
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  - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Cyber Foraging Bridging Mobile And Cloud Computing Jason Flinn.

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