

# The Computer for the 21st Century: Security & Privacy Challenges After 25 Years

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*Abstract*—Decades went by since Mark Weiser published his influential work on how a computer of the 21st century would look like. Over the years, some of the UbiComp features presented in that paper have been gradually adopted by industry players in the technology market. While this technological evolution resulted in many benefits to our society, it has also posed, along the way, countless challenges that we have yet to surpass. In this paper, we address major challenges from two areas that most afflict the UbiComp revolution: security and privacy. We examine open problems on software protection, long-term security, cryptography engineering, and privacy implications. We also point out promising directions towards the solutions of those problems. We claim that if we get all this right, we will turn the science fiction of UbiComp into science fact.

## I. INTRODUCTION

In 1991, Mark Weiser described a vision of the *Computer for the 21st Century* [1]. Weiser, in his prophetic paper, argued the most far-reaching technologies are those that allow themselves to disappear, vanish into thin air. According to Weiser, this oblivion is a human—not a technological—phenomenon: “Whenever people learn something sufficiently well, they cease to be aware of it,” he claimed. This event is called “tacit dimension” or “compiling” and can be witnessed, for instance, when drivers react to street signs without consciously having to process the letters S-T-O-P [1].

A quarter of a century later, however, Weiser’s dream is far from becoming true. Over the years, many of his concepts regarding Ubiquitous Computing (UbiComp) [2], [3] have been materialized into what today we call Wireless Sensor Networks [4], [5], Internet of Things [6], [7], Wearables [8], [9], and Cyber-Physical Systems [10], [11]. The applications of these systems range from traffic accident and CO<sub>2</sub> emission monitoring to autonomous automobile and patient in-home care. Nevertheless, besides all their benefits, the advent of those systems per se have also brought about some drawbacks. And, unless we address them appropriately, the continuity of Weiser’s prophecy will be at stake.

UbiComp poses new drawbacks because, *vis-à-vis* traditional computing, it exhibits an entirely different outlook [12]. Computer systems in UbiComp, for instance, feature sensors, CPU, and actuators. Respectively, this means they can hear (or spy on) you, process your data (and,

possibly, find out something confidential about you), and respond to your actions (or, ultimately, expose you by revealing some secret). Those capabilities, in turn, make proposals for conventional computers ill-suited in the UbiComp setting and present new challenges.

In the above scenarios, some of the most critical challenges lie in the areas of Security and Privacy [13]. This is so because the market and users often pursue a system full of features at the expense of proper operation and protection; although, conversely, as computing elements pervade our daily lives, the demand for stronger security schemes becomes greater than ever. Notably, there is a dire need for a secure mechanism able to encompass all aspects and manifestations of UbiComp, across time as well as space, and in a seamless and efficient manner.

In this paper, we discuss contemporary security and privacy issues in the context of UbiComp. We examine multiple research problems still open and point to promising approaches towards their solutions. More precisely, we investigate the following challenges and their ramifications.

- 1) Software protection in Section II: we study the impact of the adoption of weakly typed languages by resource-constrained devices, and discuss mechanisms to mitigate this impact. We go over techniques to validate polyglot software (i.e., software based on multiple programming languages), and revisit promising methods to analyze networked embedded systems.
- 2) Long-term security in Section III: we examine the security of today’s widely used cryptosystems (e.g. RSA/ECC-based), present some of the latest threats (e.g. the advances in cryptanalysis and quantum attacks), and explore new directions and challenges to guarantee long-term security in the UbiComp setting.
- 3) Cryptography engineering in Section IV: we restate the essential role of cryptography in safeguarding computers, discuss the status quo of lightweight cryptosystems and their secure implementation, and highlight challenges in key management protocols.
- 4) Privacy implications in Section V: we explain why security is necessary but not sufficient to ensure privacy, go over important privacy-related issues (e.g. sensitivity data identification and regulation), and discuss some tools of the trade to fix those (e.g. privacy-preserving protocols based on homomorphic encryption).

We claim that only if we get the challenges right, we can turn the science fiction of UbiComp into science fact.

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# Computer Security In The 21st Century

**Lee D.T. Et.Al**



## **Computer Security In The 21st Century:**

**Computer Security in the 21st Century** D.T. Lee, S. P. Shieh, J. Doug Tygar, 2005-12-05 Computer Security in the 21st Century shares some of the emerging important research trends reflected in recent advances in computer security including security protocol design secure peer to peer and ad hoc networks multimedia security and intrusion detection defense and measurement Highlights include presentations of Fundamental new security Cryptographic protocols and design A new way of measuring network vulnerability attack surfaces Network vulnerability and building impenetrable systems Multimedia content protection including a new standard for photographic images JPEG2000 Researchers and computer security developers will find in this book interesting and useful insights into building computer systems that protect against computer worms computer viruses and other related concerns *Computer Security In The 21st Century* Lee D.T. Et.Al, 2008-12-01

**Challenges of Information Technology Management in the 21st Century** Information Resources Management Association. International Conference, 2000 As the 21st century begins we are faced with opportunities and challenges of available technology as well as pressured to create strategic and tactical plans for future technology Worldwide IT professionals are sharing and trading concepts and ideas for effective IT management and this co operation is what leads to solid IT management practices This volume is a collection of papers that present IT management perspectives from professionals around the world The papers seek to offer new ideas refine old ones and pose interesting scenarios to help the reader develop company sensitive management strategies Privacy and Security in the 21st Century National Academy of Engineering, Steven Olson, 2019-10-03 New technologies and capabilities such as Google Cloud and artificial intelligence are changing the world at an unprecedented rate A transition to cloud computing offers a variety of benefits including worldwide access and faster networks This digital transformation also presents an array of new challenges The privacy and security of these systems is one of the most discussed subjects of the current century The theme of the National Academy of Engineering Annual Meeting on September 30th and October 1st 2018 was privacy and security in the 21st century Topics of discussion included new security regulations and procedures to mitigate the new range of threats that this era presents Understanding privacy in new digital contexts and building security into systems with the use of artificial intelligence are necessary steps in order to protect our data in the future This publication summarizes the presentations and discussions from the forum *Information Technology in 21st Century Battlespace* United States. Congress. House. Committee on Armed Services. Subcommittee on Terrorism, Unconventional Threats, and Capabilities, 2004 Policing in the 21st Century Great Britain. Parliament. House of Commons. Home Affairs Committee, 2008 Policing in the 21st Century Seventh report of session 2007 08 Vol 2 Oral and written Evidence *Handbook of Research on Current Trends in Cybersecurity and Educational Technology* Jimenez, Remberto, O'Neill, Veronica E., 2023-02-17 There has been an increased use of technology in educational settings since the start of the COVID 19 pandemic Despite the benefits of including such technologies to support education

there is still the need for vigilance to counter the inherent risk that comes with the use of such technologies as the protection of students and their information is paramount to the effective deployment of any technology in education The Handbook of Research on Current Trends in Cybersecurity and Educational Technology explores the full spectrum of cybersecurity and educational technology today and brings awareness to the recent developments and use cases for emergent educational technology Covering key topics such as artificial intelligence gamification robotics and online learning this premier reference source is ideal for computer scientists industry professionals policymakers administrators researchers academicians scholars practitioners instructors and students Innovations and Tactics for 21st Century Diplomacy Zreik, Mohamad,2024-10-31 In an era marked by escalating economic social and military confrontations diplomacy plays a crucial role in managing conflicts and fostering cooperation among nations Effective diplomatic efforts are essential for mitigating tensions building alliances and addressing global challenges in a manner that promotes stability and mutual understanding To avoid the follies of the 20th century and instill progressive plans toward a positive future for all an updated and comprehensive view of diplomacy is essential Innovations and Tactics for 21st Century Diplomacy offers a thorough overview of current diplomatic strategies and invaluable insights for scholars policymakers and practitioners in international relations By integrating the latest research with innovative approaches and historical contexts these chapters encourage critical thinking and promote further exploration into effective diplomatic methods that promote global progress Covering topics such as citizen diplomacy foreign policy and international tensions this book is a valuable resource for diplomats international relations professionals graduate and postgraduate students educators policy makers government officials and more Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2018-05-04 Cyber security has become a topic of concern over the past decade as private industry public administration commerce and communication have gained a greater online presence As many individual and organizational activities continue to evolve in the digital sphere new vulnerabilities arise Cyber Security and Threats Concepts Methodologies Tools and Applications contains a compendium of the latest academic material on new methodologies and applications in the areas of digital security and threats Including innovative studies on cloud security online threat protection and cryptography this multi volume book is an ideal source for IT specialists administrators researchers and students interested in uncovering new ways to thwart cyber breaches and protect sensitive digital information **Detecting and Mitigating Robotic Cyber Security Risks** Kumar, Raghavendra,Pattnaik, Prasant Kumar,Pandey, Priyanka,2017-03-20 Risk detection and cyber security play a vital role in the use and success of contemporary computing By utilizing the latest technological advances more effective prevention techniques can be developed to protect against cyber threats Detecting and Mitigating Robotic Cyber Security Risks is an essential reference publication for the latest research on new methodologies and applications in the areas of robotic and digital security Featuring extensive coverage on a broad range of topics such as authentication techniques cloud

security and mobile robotics this book is ideally designed for students researchers scientists and engineers seeking current research on methods models and implementations of optimized security in digital contexts *The Computer in the 21st Century*, 1995 **Investigating Computer Crime in the 21st Century** Ronald L. Mendell, 2004 **Computer Security and the Role of Law Enforcement in the 21st Century** Thomas A. Johnson, 1989\* [Principles of Computer Security, Fourth Edition](#) Wm. Arthur Conklin, Greg White, Chuck Cothren, Roger L. Davis, Dwayne Williams, 2016-01-01 Written by leading information security educators this fully revised full color computer security textbook covers CompTIA s fastest growing credential CompTIA Security Principles of Computer Security Fourth Edition is a student tested introductory computer security textbook that provides comprehensive coverage of computer and network security fundamentals in an engaging and dynamic full color design In addition to teaching key computer security concepts the textbook also fully prepares you for CompTIA Security exam SY0 401 with 100% coverage of all exam objectives Each chapter begins with a list of topics to be covered and features sidebar exam and tech tips a chapter summary and an end of chapter assessment section that includes key term multiple choice and essay quizzes as well as lab projects Electronic content includes CompTIA Security practice exam questions and a PDF copy of the book Key features CompTIA Approved Quality Content CAQC Electronic content features two simulated practice exams in the Total Tester exam engine and a PDF eBook Supplemented by Principles of Computer Security Lab Manual Fourth Edition available separately White and Conklin are two of the most well respected computer security educators in higher education Instructor resource materials for adopting instructors include Instructor Manual PowerPoint slides featuring artwork from the book and a test bank of questions for use as quizzes or exams Answers to the end of chapter sections are not included in the book and are only available to adopting instructors Learn how to Ensure operational organizational and physical security Use cryptography and public key infrastructures PKIs Secure remote access wireless networks and virtual private networks VPNs Authenticate users and lock down mobile devices Harden network devices operating systems and applications Prevent network attacks such as denial of service spoofing hijacking and password guessing Combat viruses worms Trojan horses and rootkits Manage e mail instant messaging and web security Explore secure software development requirements Implement disaster recovery and business continuity measures Handle computer forensics and incident response Understand legal ethical and privacy issues *Best Jobs for the 21st Century* J. Michael Farr, 2006 Presents an overview of more than five hundred job descriptions for careers with the best pay fastest growth and most openings as well as lists of best jobs based on education level interest and personality type

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University Hanoi National Economics University Faculty of Business Management The University of Danang University of Economics University of Economics Ho Chi Minh City Foreign Trade University University of Economics Hue University University of Hertfordshire UK AVSE Global France PPM School of Management Indonesia EM Normandie Business School France will organize the 12th International Conference on Emerging Challenges Sustainable Strategies in the Data driven Economy in Thanh Hoa Vietnam on November 1 2 2024 We would like to invite you to be a part of the ICECH2024 and submit your research papers for presentation The details are as follows Thanks to the juggernaut technological development especially in the context of the Industrial Revolution 4 0 such as greater data availability and the increasing popularity of the Internet governments firms and people are utilizing data especially big data to improve their decision making boost productivity understand citizens and or customers needs and behaviours meet a greater variety of demands and many others benefits It is undeniable that the data driven economy features powerful economies of scale economies of scope network externalities in many sectors and pervasive information asymmetry Businesses globally are experiencing a significant increase in digitalization leading to a surge in data volumes and emphasizing the need for enterprises to prioritize data driven approaches Data is becoming a crucial company asset and its value relies on effectively utilizing it to produce actionable insights for strategic decision making In addition to the challenges that businesses are facing in the data driven economy over the past few years the world has been gripped with rising uncertainties and significant challenges such as the COVID 19 pandemic the Russia Ukraine or the Israel Hamas conflicts These issues coupled with current lingering problems such as climate change do pose significant threats to economies and companies around the world In response to these challenges governments and firms have adopted sustainability oriented approaches such as the digitalization and or digital transformation of business activities the pursuant of sustainable development goals SDGs or the adoption of Environmental Social and Governance ESG practices In the context of coupling challenges as mentioned above it is essential to discuss the solutions that businesses should take to be resilient in uncertain contexts and achieve sustainable development Thus ICECH2024 aims to provide a forum for academics and professionals to share research findings experiences and knowledge with respect to the craft implementation and effects of sustainable strategies in a data driven global economy The ICECH2024 Conference will focus on but not limited to Asia Pacific nations We welcome submissions in the following areas Economics Business Law Management Finance and Banking Innovation and Technology Accounting and Auditing

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