

Ann Blandford · Simon Attfield

Interacting with Information

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Airi Lampinen



Interacting With Information Simon Attfield:

Interacting with Information Ann Blandford, Simon Attfield, 2022-05-31 We live in an information age but information is only useful when it is interpreted by people and applied in the context of their goals and activities The volume of information to which people have access is growing at an incredible rate vastly outstripping people's ability to assimilate and manage it In order to design technologies that better support information work it is necessary to better understand the details of that work In this lecture we review the situations physical social and temporal in which people interact with information We also discuss how people interact with information in terms of an information journey in which people iteratively do the following recognise a need for information find information interpret and evaluate that information in the context of their goals and use the interpretation to support their broader activities People's information needs may be explicit and clearly articulated but conversely may be tacit exploratory and evolving Widely used tools supporting information access such as searching on the Web and in digital libraries support clearly defined information requirements well but they provide limited support for other information needs Most other stages of the information journey are poorly supported at present Novel design solutions are unlikely to be purely digital but to exploit the rich variety of information resources digital physical and social that are available Theories of information interaction and sensemaking can highlight new design possibilities that augment human capabilities We review relevant theories and findings for understanding information behaviours and we review methods for evaluating information working tools to both assess existing tools and identify requirements for the future Table of Contents Introduction Pervasive Information Interactions Background Information Interaction at the Crossroads of Research Traditions The Situations Physical Social and Temporal The Behaviors Understanding the Information Journey The Technologies Supporting the Information Journey Studying User Behaviors and Needs for Information Interaction Looking to the Future Further Reading

The Paradigm Shift to Multimodality in Contemporary Computer Interfaces Sharon Oviatt, Philip R. Cohen, 2022-06-01 During the last decade cell phones with multimodal interfaces based on combined new media have become the dominant computer interface worldwide Multimodal interfaces support mobility and expand the expressive power of human input to computers They have shifted the fulcrum of human computer interaction much closer to the human This book explains the foundation of human centered multimodal interaction and interface design based on the cognitive and neurosciences as well as the major benefits of multimodal interfaces for human cognition and performance It describes the data intensive methodologies used to envision prototype and evaluate new multimodal interfaces From a system development viewpoint this book outlines major approaches for multimodal signal processing fusion architectures and techniques for robustly interpreting users meaning Multimodal interfaces have been commercialized extensively for field and mobile applications during the last decade Research also is growing rapidly in areas like multimodal data analytics affect recognition accessible interfaces embedded and robotic interfaces machine learning and new hybrid processing approaches

and similar topics The expansion of multimodal interfaces is part of the long term evolution of more expressively powerful input to computers a trend that will substantially improve support for human cognition and performance

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Social Media and Civic Engagement Scott Robertson, 2022-05-31 Social media platforms are the latest manifestation in a series of sociotechnical innovations designed to enhance civic engagement political participation and global activism While many researchers started out as optimists about the promise of social media for broadening participation and enhancing civic engagement recent events have tempered that optimism As this book goes to press Facebook is fighting a battle over the massive disclosure of user information during the 2016 U S presidential campaign social analytics company Cambridge Analytica is being revealed as a major player in micro profiling voters in that same election bots and fake news factories are undermining democratic discourse via social media worldwide and the president of the United States is unnerving the world as a stream of consciousness Twitter user This book is a foundational review of current research on social media and civic engagement organized in terms of history theory practice and challenges History reviews how researchers and developers have continuously pushed the envelope to explore technology enhancements for political and social discourse Theory reveals that the use of globally networked social technologies touches many fields including political science sociology psychology media studies network science and more Practice is examined through studies of political engagement both in democratic situations and in confrontational situations Challenges are identified in order to find ways forward For better or worse social media for civic engagement has come of age Citizens politicians and activists are utilizing social media in innovative ways while bad actors are discovering possibilities for spreading dissention and undermining trust We are at a sobering inflection point and this book is your foundation for understanding how we got here and where we are going

Designing and Evaluating Usable Technology in Industrial Research Clare-Marie Karat, John Karat, 2022-05-31 This book is about HCI research in an industrial research setting It is based on the experiences of two researchers at the IBM T J Watson Research Center Over the last two decades Drs John and Clare Marie Karat have conducted HCI research to create innovative usable technology for users across a variety of domains We begin the book by introducing the reader to the context of industrial research as well as a set of common themes or guidelines to consider in conducting HCI research in practice Then case study examples of HCI

approaches to the design and evaluation of usable solutions for people are presented and discussed in three domain areas: item Conversational speech technologies, item Personalization in eCommerce and item Security and privacy policy management technologies. In each of the case studies, the authors illustrate and discuss examples of HCI approaches to design and evaluation that worked well and those that did not. They discuss what was learned over time about different HCI methods in practice and changes that were made to the HCI tools used over time. The Karats discuss trade offs and issues related to time, resources, and money and the value derived from different HCI methods in practice. These decisions are ones that need to be made regularly in the industrial sector. Similarities and differences with the types of decisions made in this regard in academia will be discussed. The authors then use the context of the three case studies in the three research domains to draw insights and conclusions about the themes that were introduced in the beginning of the book. The Karats conclude with their perspective about the future of HCI industrial research.

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Themes and Structure of the Book

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Automatic Speech Recognition (ASR)

Case Study 2: Personalization in eCommerce

Case Study 3: Security and Privacy Policy Management Technologies

Insights and Conclusions

The Future of Industrial HCI Research

Statistics for HCI Alan Dix, 2022-05-31

Many people find statistics confusing and perhaps even more confusing given recent publicity about problems with traditional p values and alternative statistical techniques including confidence intervals and Bayesian statistics. This book aims to help readers navigate this morass to understand the debates, to be able to read and assess other people's statistical reports and make appropriate choices when designing and analysing their own experiments, empirical studies and other forms of quantitative data gathering.

Core-Task Design Leena Norros, Paula Savioja, Hanna Koskinen, 2022-06-01

This book focuses on design of work from the human factors (HF) perspective. In the approach referred to as Core Task Design (CTD), work is considered practice composed of human actors, the physical and social environment, and the tools used for reaching the actors' objectives. This book begins with consideration of an industrial case: the modernization of a nuclear power plant automation system and the related human system interfaces in the control room. This case illustrates generic design dilemmas that invite one to revisit human factors research methodology. Human factors should adopt practice as a new unit of analysis and should accept intervention as an inherent feature of its methodology. These suggestions are put into practice in the CTD approach, according to which three general design functions are performed: those being understood to generalize empirical analysis of the work at hand, foresee the promise, creation of concepts for future work, and intervene to develop participatory development and design of work. For fulfillment of each of the design functions, several CTD methods are introduced. The methods are aimed at modeling the core task and analyzing how the actors actually take the core task features into account in order to achieve balance between potentially conflicting demands in action. Thereby, new understanding of the core task is acquired. Further methods focus on projecting the roles and functionality of technologies in the future work and on implementing changes to

the work Specific studies of the nuclear power plant s control room renewal constitute an example demonstrating a core task and the associated methods We argue that the CTD approach offers clear utility for the design of future technology work and everyday services and environments CTD utilizes achievements of practice theory in the social sciences to generate a creative synthesis of Cognitive Work Analysis semiotic analysis of practice and the cultural historical theory of activity Core Task Design facilitates dialogue among human factors experts design engineers and end users in their joint development of work The intended audience of this book is students researchers and practitioners of human factors industrial art and design and instrumentation and control system design Table of Contents Acknowledgments Preface Introduction Core Task Design Methodology Understandings How to Generalize from Empirical Enquiry about Actual Work Foreseeing How to Uncover the Promise of Solutions for Future Work Intervening How to Develop the Work System Core Task Design in Broader Perspective Bibliography Author Biographies

User-Centered Agile Methods Hugh Beyer, 2022-06-01 With the introduction and popularization of Agile methods of software development existing relationships and working agreements between user experience groups and developers are being disrupted Agile methods introduce new concepts the Product Owner the Customer but not the user short iterations User Stories Where do UX professionals fit in this new world Agile methods also bring a new mindset no big design no specifications minimal planning which conflict with the needs of UX design This lecture discusses the key elements of Agile for the UX community and describes strategies UX people can use to contribute effectively in an Agile team overcome key weaknesses in Agile methods as typically implemented and produce a more robust process and more successful designs We present a process combining the best practices of Contextual Design a leading approach to user centered design with those of Agile development Table of Contents Introduction Common Agile Methods Agile Culture Best Practices for Integrating UX with Agile Structure of a User Centered Agile Process Structuring Projects Conclusion

Experience-Centered Design Peter Wright, John McCarthy, 2022-05-31 Experience centered design experience based design experience design designing for experience user experience design All of these terms have emerged and gained acceptance in the Human Computer Interaction HCI and Interaction Design relatively recently In this book we set out our understanding of experience centered design as a humanistic approach to designing digital technologies and media that enhance lived experience The book is divided into three sections In Section 1 we outline the historical origins and basic concepts that led into and flow out from our understanding of experience as the heart of people s interactions with digital technology In Section 2 we describe three examples of experience centered projects and use them to illustrate and explain our dialogical approach In Section 3 we recapitulate some of the main ideas and themes of the book and discuss the potential of experience centered design to continue the humanist agenda by giving a voice to those who might otherwise be excluded from design and by creating opportunities for people to enrich their lived experience with and through technology Table of Contents How Did We Get Here Some Key Ideas Behind Experience Centered Design Making Sense of Experience in

Experience Centered Design Experience Centered Design as Dialogue What do We Mean by Dialogue Valuing Experience Centered Design Where Do We Go from Here **Mobile Interactions in Context** Jesper Kjeldskov, 2022-05-31 This book presents a contextual approach to designing contemporary interactive mobile computer systems as integral parts of ubiquitous computing environments Interactive mobile systems services and devices have become functional design objects that we care deeply about Although their look feel and features impact our everyday lives as we orchestrate them in concert with a plethora of other computing technologies these artifacts are not well understood or created through traditional methods of user centered design and usability engineering Contrary to more traditional IT artifacts they constitute holistic user experiences of value and pleasure that require careful attention to the variety complexity and dynamics of their usage Hence the design of mobile interactions proposed in this book transcends existing approaches by using the ensemble of form and context as its central unit of analysis As such it promotes a designerly way of achieving convergence between form and context through a contextually grounded wholeness sensitive and continually unfolding process of design Table of Contents Acknowledgments Introduction Mobile Computing Interaction Design Design Approaches A Decade of Mobile HCI Research Toward a Designerly Way Revisiting User Centered Design Continual Convergence of Form and Context Where to from Here References Author Biography *Contextual Design* Karen Holtzblatt, Hugh Beyer, 2022-05-31 Contextual Design is a user centered design process that uses in depth field research to drive innovative design Contextual Design was first invented in 1988 and has since been used in a wide variety of industries and taught in universities all over the world It is a complete front end design process rooted in Contextual Inquiry the widespread industry standard field data gathering technique Contextual Design adds techniques to analyze and present user data drive ideation from data design specific product solutions and iterate those solutions with customers In 2013 we overhauled the method to account for the way that technology has radically changed people s lives since the invention of the touchscreen phones and other always on always connected and always carried devices This book describes the new Contextual Design evolved to help teams design for the way technology now fits into peoples lives We briefly describe the steps of the latest version of Contextual Design and show how they create a continual immersion in the world of the user for the purpose of innovative product design *Humanistic HCI* Jeffrey Bardzell, Shaowen Bardzell, 2022-05-31 Although it has influenced the field of Human Computer Interaction HCI since its origins humanistic HCI has come into its own since the early 2000s In that time it has made substantial contributions to HCI theory and methodologies and also had major influence in user experience UX design aesthetic interaction and emancipatory social change oriented approaches to HCI This book reintroduces the humanities to a general HCI readership characterizes its major epistemological and methodological commitments as well as forms of rigor compares the scientific report vs the humanistic essay as research products while offering some practical advice for peer review and focuses on two major topics where humanistic HCI has had particular influence in the field user experience and aesthetics

and emancipatory approaches to computing This book argues for a more inclusive and broad reach for humanistic thought within the interdisciplinary field of HCI and its lively and engaging style will invite readers into that project

HCI Design Knowledge Long John, Cummaford Steve, Stork Adam, 2022-05-31 This is the first of two books concerned with engineering design principles for Human Computer Interaction Engineering Design Principles HCI EDPs The book presents the background for the companion volume The background is divided into three parts and comprises HCI for EDPs HCI Design Knowledge for EDPs and HCI EDPs A Way Forward for HCI Design Knowledge The companion volume reports in full the acquisition of initial HCI EDPs in the domains of domestic energy planning and control and business to consumer electronic commerce Long Cummaford and Stork 2022 in press The background includes the disciplinary basis for HCI EDPs a critique of and the challenge for HCI design knowledge in general The latter is categorised into three types for the purposes in hand These are craft artefacts and design practice experience models and methods and principles rules and heuristics HCI EDPs attempt to meet the challenge for HCI design knowledge by increasing the reliability of its fitness for purpose to support HCI design practice The book proposes instance first class first approaches to the acquisition of HCI EDPs The approaches are instantiated in two case studies summarised here and reported in full in the companion volume The book is for undergraduate students trying to understand the different kinds of HCI design knowledge their varied and associated claims and their potential for application to design practice now and in the future The book also provides grounding for young researchers seeking to develop further HCI EDPs in their own work

Toward Engineering Design Principles for HCI John Long, Steve Cummaford, Adam Stork, 2022-05-31 This is the second of two books by the authors about engineering design principles for human computer interaction HCI EDPs The books report research that takes an HCI engineering discipline approach to acquiring initial such principles Together they identify best practice HCI design knowledge for acquiring HCI EDPs This book specifically reports two case studies of the acquisition of initial such principles in the domains of domestic energy planning and control and business to consumer electronic commerce The book begins by summarising the earlier volume sufficient for readers to understand the case studies reported in full here The themes concepts and ideas developed in both books concern HCI design knowledge a critique thereof and the related challenge The latter is expressed as the need for HCI design knowledge to increase its fitness for purpose to support HCI design practice more effectively HCI EDPs are proposed here as one response to that challenge and the book presents case studies of the acquisition of initial HCI EDPs including an introduction two development cycles and presentation and assessment for each Carry forward of the HCI EDP progress is also identified The book adopts a discipline approach framework for HCI and an HCI engineering discipline framework for HCI EDPs These approaches afford design knowledge that supports specify then implement design practices Acquisition of the initial EDPs apply current best practice design knowledge in the form of specify implement test and iterate design practices This can be used similarly to acquire new HCI EDPs Strategies for developing HCI EDPs are proposed

together with conceptions of human computer systems required for conceptualisation and operationalisation of their associated design problems and design solutions This book is primarily for postgraduate students and young researchers wishing to develop further the idea of HCI EDPs and other more reliable HCI design knowledge It is structured to support both the understanding and the operationalisation of HCI EDPs as required for their acquisition their long term potential contribution to HCI design knowledge and their ultimate application to design practice

Human-Computer Interactions in Museums Eva Hornecker, Luigina Ciolfi, 2022-05-31 Museums have been a domain of study and design intervention for Human Computer Interaction HCI for several decades However while resources providing overviews on the key issues in the scholarship have been produced in the fields of museum and visitor studies no such resource as yet existed within HCI This book fills this gap and covers key issues regarding the study and design of HCIs in museums Through an on site focus the book examines how digital interactive technologies impact and shape galleries exhibitions and their visitors It consolidates the body of work in HCI conducted in the heritage field and integrates it with insights from related fields and from digital heritage practice Processes of HCI design and evaluation approaches for museums are also discussed This book draws from the authors extensive knowledge of case studies as well as from their own work to provide examples reflections and illustrations of relevant concepts and problems This book is designed for students and early career researchers in HCI or Interaction Design for more seasoned investigators who might approach the museum domain for the first time and for researchers and practitioners in related fields such as heritage and museum studies or visitor studies Designers who might wish to understand the HCI perspective on visitor facing interactive technologies may also find this book useful

Disability Interactions Catherine Holloway, Giulia Barbareschi, 2022-05-31 Disability interactions DIX is a new approach to combining cross disciplinary methods and theories from Human Computer Interaction HCI disability studies assistive technology and social development to co create new technologies experiences and ways of working with disabled people DIX focuses on the interactions people have with their technologies and the interactions which result because of technology use A central theme of the approach is to tackle complex issues where disability problems are part of a system that does not have a simple solution Therefore DIX pushes researchers and practitioners to take a challenge based approach which enables both applied and basic research to happen alongside one another DIX complements other frameworks and approaches that have been developed within HCI research and beyond Traditional accessibility approaches are likely to focus on specific aspects of technology design and use without considering how features of large scale assistive technology systems might influence the experiences of people with disabilities DIX aims to embrace complexity from the start to better translate the work of accessibility and assistive technology research into the real world DIX also has a stronger focus on user centered and participatory approaches across the whole value chain of technology ensuring we design with the full system of technology in mind from conceptualization and development to large scale distribution and access DIX also helps to acknowledge that

solutions and approaches are often non binary and that technologies and interactions that deliver value to disabled people in one situation can become a hindrance in a different context Therefore it offers a more nuanced guide to designing within the disability space which expands the more traditional problem solving approaches to designing for accessibility This book explores why such a novel approach is needed and gives case studies of applications highlighting how different areas of focus from education to health to work to global development can benefit from applying a DIX perspective We conclude with some lessons learned and a look ahead to the next 60 years of DIX

From Tool to Partner Jonathan Grudin, 2022-05-31 This is the first comprehensive history of human computer interaction HCI Whether you are a user experience professional or an academic researcher whether you identify with computer science human factors information systems information science design or communication you can discover how your experiences fit into the expanding field of HCI You can determine where to look for relevant information in other fields and where you won't find it This book describes the different fields that have participated in improving our digital tools It is organized chronologically describing major developments across fields in each period Computer use has changed radically but many underlying forces are constant Technology has changed rapidly human nature very little An irresistible force meets an immovable object The exponential rate of technological change gives us little time to react before technology moves on Patterns and trajectories described in this book provide your best chance to anticipate what could come next We have reached a turning point Tools that we built for ourselves to use are increasingly influencing how we use them in ways that are planned and sometimes unplanned The book ends with issues worthy of consideration as we explore the new world that we and our digital partners are shaping

Experience Design Marc Hassenzahl, 2022-05-31 In his *In the blink of an eye* Walter Murch the Oscar awarded editor of *The English Patient* *Apocalypse Now* and many other outstanding movies devises the Rule of Six six criteria for what makes a good cut On top of his list is to be true to the emotion of the moment a quality more important than advancing the story or being rhythmically interesting The cut has to deliver a meaningful compelling and emotion rich experience to the audience Because what they finally remember is not the editing not the camerawork not the performances not even the story it's how they felt Technology for all the right reasons applies this insight to the design of interactive products and technologies the domain of Human Computer Interaction Usability Engineering and Interaction Design It takes an experiential approach putting experience before functionality and leaving behind oversimplified calls for ease efficiency and automation or shallow beautification Instead it explores what really matters to humans and what it needs to make technology more meaningful The book clarifies what experience is and highlights five crucial aspects and their implications for the design of interactive products It provides reasons why we should bother with an experiential approach and presents a detailed working model of experience useful for practitioners and academics alike It closes with the particular challenges of an experiential approach for design The book presents its view as a comprehensive yet entertaining blend of scientific findings design examples and personal anecdotes

Table of Contents Follow me Crucial Properties of Experience Three Good Reasons to Consider Experience A Model of Experience Reflections on Experience Design The Trouble With Sharing Airi Lampinen, 2022-05-31 Peer to peer exchange is a type of sharing that involves the transfer of valued resources such as goods and services among members of a local community and or between parties who have not met before the exchange encounter It involves online systems that allow strangers to exchange in ways that were previously confined to the realm of kinship and friendship Through the examples in this book we encounter attempts to foster the sharing of goods and services in local communities and consider the intricacies of sharing homes temporarily with strangers also referred to as hospitality exchange or network hospitality Some of the exchange arrangements discussed involve money while others explicitly ban participants from using it All rely on digital technologies but the trickiest challenges have more to do with social interaction than technical features This book explores what makes peer to peer exchange challenging with an emphasis on reciprocity closeness and participation How should we reciprocate How might we manage interactions with those we encounter to attain some closeness but not too much What keeps people from getting involved or draws them into exchange activities that they would rather avoid This book adds to the growing body of research on exchange platforms and the sharing economy It provides empirical examples and conceptual grounding for thinking about interpersonal challenges in peer to peer exchange and the efforts that are required for exchange arrangements to flourish It offers inspiration for how we might think and design differently to better understand and support the efforts of those involved in peer to peer exchange While the issues cannot be simply solved by technology it matters which digital tools an exchange arrangement relies on and even seemingly small design decisions can have a significant impact on what it is like to participate in exchange processes The technologies that support exchange arrangements often platformsof some sort can be driven by differing sets of values and commitments This book invites students and scholars in the Human Computer Interaction community and beyond to envision and design alternative exchange arrangements and future economies Multitasking in the Digital Age Gloria Mark, 2022-05-31 In our digital age we can communicate access create and share an abundance of information effortlessly rapidly and nearly ubiquitously The consequence of having so many choices is that they compete for our attention we continually switch our attention between different types of information while doing different types of tasks in other words we multitask The activity of information workers in particular is characterized by the continual switching of attention throughout the day In this book empirical work is presented based on ethnographic and sensor data collection which reveals how multitasking affects information workers activities mood and stress in real work environments Multitasking is discussed from various perspectives activity switching interruptions as triggers for activity switching email as a major source of interruptions and the converse of distractions focused attention All of these factors are components of information work This book begins by defining multitasking and describing different research approaches used in studying multitasking It then describes how multiple factors occur to

encourage multitasking in the digitally enabled workplace the abundance and ease of accessing information the number of different working spheres the workplace environment attentional state habit and social norms Empirical work is presented describing the nature of multitasking the relationship of different types of interruptions and email with overload and stress and patterns of attention focus The final chapter ties these factors together and discusses challenges that information workers in our digital age face Working Together Apart Judy S. Olson, Gary Olson, 2022-05-31 Increasingly teams are working together when they are not in the same location even though there are many challenges to doing so successfully Here we review the latest insights into these matters guided by a framework that we have developed during two decades of research on this topic This framework organizes a series of factors that we have found to differentiate between successful and unsuccessful distributed collaborations We then review the kinds of technology options that are available today focusing more on types of technologies rather than specific instances We describe a database of geographically distributed projects we have studied and introduce the Collaboration Success Wizard an online tool for assessing past present or planned distributed collaborations We close with a set of recommendations for individuals managers and those higher in the organizations who wish to support distance work

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