

Mark Guzdial

Learner-Centered Design of Computing Education

Research on Computing for Everyone

Nice Book Everyday Computing Synthesis Human Centered Informatics

Pieter E. Vermaas, Stéphane Vial



Nice Book Everyday Computing Synthesis Human Centered Informatics:

The Envisionment and Discovery Collaboratory (EDC) Ernest G. Arias, Hal Eden, Gerhard Fischer, 2022-05-31 The Envisionment and Discovery Collaboratory EDC is a long term research platform exploring immersive socio technical environments in which stakeholders can collaboratively frame and solve problems and discuss and make decisions in a variety of application domains and different disciplines The knowledge to understand frame and solve these problems does not already exist but is constructed and evolves in ongoing interactions and collaborations among stakeholders coming from different disciplines providing a unique and challenging environment to study foster and support human centered informatics design creativity and learning At the social level the EDC is focused on the collaborative construction of artifacts rather than the sharing of individually constructed items It brings individuals together in face to face meetings encouraging and supporting them to engage individually and collectively in action and reflection At the technological level the EDC integrates tabletop computing environments tangible objects sketching support geographic information systems visualization software and an envisioned virtual implementation This book is based on 20 years of research and development activities that brought together interdisciplinary teams of researchers educators designers and practitioners from different backgrounds The EDC originated with the merging of two research paradigms from disparate disciplines to build on the strengths approaches and perspectives of each This book describes the artifacts and scenarios that were developed with the goal of providing inspiration for human centered informatics not focused on technologies in search of a purpose but on the development of systems supporting stakeholders to explore personally meaningful problems These developments have inspired numerous research and teaching activities The challenges prototypical systems and lessons learned represent important milestones in the development and evolution of the EDC that are relevant for future research activities and practices in human centered informatics *Handbook of Usability and User-Experience* Marcelo M. Soares, Francisco Rebelo, Tareq Z. Ahram, 2022-05-19 This volume of the Handbook of Usability and User Experience UX presents research and case studies used to design products systems and environments with good usability and consequent acceptance pleasure in use good user experience and understanding of human interaction issues with products and systems for their improvement The book presents concepts and perspectives of UX it also discusses methods and tools that use requirements analysis activity elicitation recording and analysis to guarantee a good user experience In addition it introduces usability and UX in the automotive industry usability and UX in a digital interface game design and digital media usability and UX in fashion design and some case studies on usability and UX in various contexts in product design We hope that this second volume will be helpful to a larger number of professionals students and practitioners who strive to incorporate usability and UX principles and knowledge in a variety of applications We trust that the knowledge presented in this volume will ultimately lead to an increased appreciation of the benefits of usability and incorporate the principles of usability and UX knowledge to improve the quality effectiveness and

efficiency of everyday consumer products systems and environments **Human Computer Interaction Handbook** Julie A. Jacko, 2012-05-04 Winner of a 2013 CHOICE Outstanding Academic Title Award The third edition of a groundbreaking reference The Human Computer Interaction Handbook Fundamentals Evolving Technologies and Emerging Applications raises the bar for handbooks in this field It is the largest most complete compilation of HCI theories principles advances case studies Advancements in the Philosophy of Design Pieter E. Vermaas, Stéphane Vial, 2018-03-02 This volume presents 25 essays on the philosophy of design With contributions originating from philosophy and design research and from product design to architecture it gives a rich spectrum of state of the art research and brings together studies on philosophical topics in which design plays a key role and design research to which philosophy contributes Coverage zooms in on specific and more well known design disciplines but also includes less studied disciplines such as graphic design interior architecture and exhibition design In addition contributors take up traditional philosophical issues such as epistemology politics phenomenology and philosophy of science Some essays cover philosophical issues that emerge in design for instance what design can do in addressing societal problems while other essays analyze main stream philosophical issues in which design is part of the argument as for instance abduction and aesthetics Readers will discover new research with insightful analyses of design research design thinking and the specificity of design Overall this comprehensive overview of an emerging topic in philosophy will be of great interest to researchers and students *Human-Computer Interfaces and Interactivity: Emergent Research and Applications* Isaías, Pedro, Blashki, Katherine, 2014-06-30 In more ways than one assistive technologies can have a profound impact on humans and their operations within society Understanding these emerging technologies is crucial to their effective use in improving human lives Human Computer Interfaces and Interactivity Emergent Research and Applications aims to address the main issues of interest within the culture and design of interactive systems for individuals living with disabilities This premier reference work addresses a range of approaches including but not limited to the conceptual technological and design issues related to human computer interaction issues of interest to a range of individuals including academics university teachers researchers post graduate students public and private institutions and HCI developers and researchers **Biomedical Informatics** Edward H. Shortliffe, James J. Cimino, 2021-05-31 This 5th edition of this essential textbook continues to meet the growing demand of practitioners researchers educators and students for a comprehensive introduction to key topics in biomedical informatics and the underlying scientific issues that sit at the intersection of biomedical science patient care public health and information technology IT Emphasizing the conceptual basis of the field rather than technical details it provides the tools for study required for readers to comprehend assess and utilize biomedical informatics and health IT It focuses on practical examples a guide to additional literature chapter summaries and a comprehensive glossary with concise definitions of recurring terms for self study or classroom use Biomedical Informatics Computer Applications in Health Care and Biomedicine reflects the remarkable changes in both computing and health care

that continue to occur and the exploding interest in the role that IT must play in care coordination and the melding of genomics with innovations in clinical practice and treatment New and heavily revised chapters have been introduced on human computer interaction mHealth personal health informatics and precision medicine while the structure of the other chapters has undergone extensive revisions to reflect the developments in the area The organization and philosophy remain unchanged focusing on the science of information and knowledge management and the role of computers and communications in modern biomedical research health and health care

Computational Thinking Peter J. Denning, Matti Tedre, 2019-05-14 This pocket sized introduction to computational thinking and problem solving traces its genealogy centuries before the digital computer A few decades into the digital era scientists discovered that thinking in terms of computation made possible an entirely new way of organizing scientific investigation Eventually every field had a computational branch computational physics computational biology computational sociology More recently computational thinking has become part of the K 12 curriculum But what is computational thinking This volume in the MIT Press Essential Knowledge series offers an accessible overview tracing a genealogy that begins centuries before digital computers and portraying computational thinking as the pioneers of computing have described it The authors explain that computational thinking CT is not a set of concepts for programming it is a way of thinking that is honed through practice the mental skills for designing computations to do jobs for us and for explaining and interpreting the world as a complex of information processes Mathematically trained experts known as computers who performed complex calculations as teams engaged in CT long before electronic computers In each chapter the author identifies different dimensions of today's highly developed CT Computational Methods Computing Machines Computing Education Software Engineering Computational Science Design Along the way they debunk inflated claims for CT and computation while making clear the power of CT in all its complexity and multiplicity

Prompt Tamie Glass, 2018-06-25 Fueled by an increasingly interconnected world the desire for engaging experiences plays a more important role in interiors than ever before There is a tendency in the design of products furniture and environments toward enhanced interaction that employs psychosocial principles This publication presents both high and low tech applications ranging from a light fixture to art installations and fully realized buildings The book illustrates human centered design strategies through a series of six chapters each including examples that introduce one of the following approaches communicating stimulating synomorphic transactional transformative and challenging

Worth-Focused Design, Book 1 Gilbert Cockton, 2022-05-31 Design now has many meanings For some it is the creation of value For others it is the conception and creation of artefacts For still others it is fitting things to people These differences reflect disciplinary values that both overlap and diverge All involve artefacts we always design things Each definition considers people and purpose in some way Each handles evaluation differently measuring against aesthetics craft standards specifications sales usage experiences or usage outcomes There are both merits and risks in these differences without an appropriate balance

Poor balance can result from professions claiming the centre of design for their discipline marginalising others Process can also cause imbalance when allocating resources to scheduled stages Balance is promoted by replacing power centres with power sharing and divisive processes with integrative progressions A focus on worth guides design towards worthwhile experiences and outcomes that generously exceed expectations This book places a worth focus Wo Fo in the context of design progressions that are Balanced Integrated and Generous BIG BIG and Wo Fo are symbiotic Worth provides a focus for generosity Effective Wo Fo needs BIG practices

Human-Experiential Design of Presence in Everyday Blended Reality John Waterworth, Kei Hoshi, 2016-05-03 This book explores how our lives and social interactions have become split between two intertwined but not integrated realities the physical and the digital Our sense of presence in the here and now has become fragmented and yet earlier design approaches reinforced the problem rather than leading to improvements The authors address these issues by laying out a new human computer interaction HCI design approach human experiential design rooted in a return to first principles of how people understand the world both consciously and unconsciously The application of this approach to the design of blended reality spaces is described in detail Examples and scenarios of designing them to overcome the problems inherent in a variety of mixed reality settings are provided Human Experiential Design of Presence in Everyday Blended Reality will appeal to undergraduate and graduate students and researchers in interaction design psychology HCI and computer application studies as well as practicing interaction designers and computer professionals It will also be of interest to communication media and urban design students and to all readers with an interest in the technology mediated future

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

Encounters with HCI Pioneers Ben Shneiderman, 2022-05-31 The huge success of personal computing technologies has brought astonishing benefits to

individuals families communities businesses and government transforming human life largely for the better These democratizing transformations happened because a small group of researchers saw the opportunities to convert sophisticated computational tools into appealing personal devices offering valued services by way of easy to use interfaces Along the way there were challenges to their agenda of human centered design by 1 traditional computer scientists who were focused on computation rather than people oriented services and 2 those who sought to build anthropomorphic agents or robots based on excessively autonomous scenarios The easy to learn and easy to use interfaces based on direct manipulation became the dominant form of interaction for more than six billion people This book gives my personal history of the intellectual arguments and the key personalities I encountered I believe that the lessons of how the discipline of Human Computer Interaction HCI and the profession of User Experience Design UXD were launched can guide others in forming new disciplines and professions The stories and photos of the 60 HCI pioneers engaged in discussions and presentations capture the human drama of collaboration and competition that invigorated the encounters among these bold creative generous and impassioned individuals

Worth-Focused Design, Book 2 Gilbert Cockton,2022-05-31 This book introduces the concept of worth for design teams relates it to experiences and outcomes and describes how to focus on worth when researching and expressing design opportunities for generous worth Truly interdisciplinary teams also need an appropriate common language which was developed in the companion book Worth Focused Design Book 1 Balance Integration and Generosity Cockton 2020a Its new lexicon for design progressions enables a framework for design and evaluation that works well with a worth focus Design now has different meanings based upon the approach of different disciplinary practices For some it is the creation of value For others it is the conception and creation of artefacts For still others it is fitting things to people beneficiaries While each of these design foci has merits there are risks in not having an appropriate balance across professions that claim the centre of design for their discipline and marginalise others Generosity is key to the best creative design delivering unexpected worth beyond documented needs wants or pain points Truly interdisciplinary design must also balance and integrate approaches across several communities of practice which is made easier by common ground Worth provides a productive focus for this common ground and is symbiotic with balanced integrated and generous BIG practices Practices associated with balance and integration for worth focused generosity are illustrated in several case studies that have used approaches in this book complementing them with additional practices

Handbook of Digital Twins Zhihan Lyu,2024-05-29 Over the last two decades Digital Twins DTs have become the intelligent representation of future development in industrial production and daily life Consisting of over 50 chapters by more than 100 contributors this comprehensive handbook explains the concept architecture design specification and application scenarios of DTs As a virtual model of a process product or service to pair the virtual and physical worlds DTs allow data analysis and system monitoring by using simulations The fast growing technology has been widely studied and developed in

recent years Featured with centralization integrity and dynamics it is cost effective to drive innovation and performance Many fields saw the adaptation and implementation across industrial production healthcare smart city transportation and logistics World famous enterprises such as Siemens Tesla ANSYS and General Electric have built smart factories and pioneered digital production heading towards Industry 4 0 This book aims to provide an in depth understanding and reference of DTs to technical personnel in the field students and scholars of related majors and general readers interested in intelligent industrial manufacturing HCI International 2020 - Posters Constantine Stephanidis, Margherita Antona, 2020-07-11 The three volume set CCIS 1224 CCIS 1225 and CCIS 1226 contains the extended abstracts of the posters presented during the 22nd International Conference on Human Computer Interaction HCII 2020 which took place in Copenhagen Denmark in July 2020 HCII 2020 received a total of 6326 submissions of which 1439 papers and 238 posters were accepted for publication in the pre conference proceedings after a careful reviewing process The 238 papers presented in these three volumes are organized in topical sections as follows Part I design and evaluation methods and tools user characteristics requirements and preferences multimodal and natural interaction recognizing human psychological states user experience studies human perception and cognition AI in HCI Part II virtual augmented and mixed reality virtual humans and motion modelling and tracking learning technology Part III universal access accessibility and design for the elderly smartphones social media and human behavior interacting with cultural heritage human vehicle interaction transport safety and crisis management security privacy and trust product and service design The conference was held virtually due to the COVID 19 pandemic **The Metainterface** Christian Ulrik Andersen, Soren Bro Pold, 2023-10-31 How the interface has moved from the PC into cultural platforms as seen in a series of works of net art software art and electronic literature The computer interface is both omnipresent and invisible at once embedded in everyday objects and characterized by hidden exchanges of information between objects The interface has moved from office into culture with devices apps the cloud and data streams as new cultural platforms In *The Metainterface* Christian Ulrik Andersen and Soren Bro Pold examine the relationships between art and interfaces tracing the interface's disruption of everyday cultural practices They present a new interface paradigm of cloud services smartphones and data capture and examine how particular art forms including net art software art and electronic literature seek to reflect and explore this paradigm Andersen and Pold argue that despite attempts to make the interface disappear into smooth access and smart interaction it gradually resurfaces there is a metainterface to the displaced interface Art can help us see this the interface can be an important outlet for aesthetic critique Andersen and Pold describe the semantic capitalism of a metainterface industry that captures user behavior the metainterface industry's disruption of everyday urban life changing how the city is read inhabited and organized the ways that the material displacement of the cloud affects the experience of the interface and the potential of designing with an awareness of the language and grammar of interfaces **Designing for Learning in a Networked World** Nina Bonderup

Dohn,2018-02-28 *Designing for Learning in a Networked World* provides answers to the following questions what skills are required for living in a networked world how can educators design for learning these skills and what role can and should networked learning play in a networked world It discusses central theoretical concepts and draws on current debates about competences necessary to thrive in contemporary society The book presents detailed analyses of skills needed and investigates the question of how one can design for learning in specific empirical cases ranging in academic level from preschool to university teaching The book clarifies the different conceptions of design within the educational field and offers a framework for thinking critically about instances of networked learning It analyses digital and Computational Literacy and discusses participatory skills for learning in a networked world Examples of specific empirical cases include teaching programming to students not necessarily intrinsically motivated to learn facilitation of a participatory public in the library and designs for children s transition from day care to primary school discussed as a matter of networked contexts Engaging thoughtfully with the question of 21st century skills this book will be vital reading to scholars researchers and students within the fields of education networked learning learning technology and the learning sciences digital literacy design for learning and library studies

Understanding Your Users Kathy Baxter,Catherine Courage,Kelly Caine,2015-05-20 This new and completely updated edition is a comprehensive easy to read how to guide on user research methods You ll learn about many distinct user research methods and also pre and post method considerations such as recruiting facilitating activities or moderating negotiating with product developments teams customers and getting your results incorporated into the product For each method you ll understand how to prepare for and conduct the activity as well as analyze and present the data all in a practical and hands on way Each method presented provides different information about the users and their requirements e g functional requirements information architecture The techniques can be used together to form a complete picture of the users needs or they can be used separately throughout the product development lifecycle to address specific product questions These techniques have helped product teams understand the value of user experience research by providing insight into how users behave and what they need to be successful You will find brand new case studies from leaders in industry and academia that demonstrate each method in action This book has something to offer whether you are new to user experience or a seasoned UX professional After reading this book you ll be able to choose the right user research method for your research question and conduct a user research study Then you will be able to apply your findings to your own products Completely new and revised edition includes 30 % new content Discover the foundation you need to prepare for any user research activity and ensure that the results are incorporated into your products Includes all new case studies for each method from leaders in industry and academia

HCI in Games Xiaowen Fang,2025-06-02 This book constitutes the refereed proceedings of the 7th International Conference on HCI in Games held as part of the 27th International Conference HCI International 2025 which took place in Gothenburg Sweden during June 22 27 2025 The total of 1430 papers

and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from thousands of submissions. The HCI Games 2025 proceedings was organized in the following topical sections: Part 1 Gamification UX and Player Behavior; Part 2 Identity, Emotion, and AI in Game Experiences; Part 3 Gamified Learning and Design; Part 4 Games in Healthcare and Wellbeing.

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 specifying then implementing design practices. Acquisition of the initial EDPs apply current best practice design knowledge in the form of specifying, implementing, testing, and iterating 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.

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