

Text Entry for Mobile Computing: Models and Methods, Theory and Practice

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ABSTRACT

Text input for mobile or handheld devices is a flourishing research area. This article begins with a brief history of the emergence and impact of mobile computers and mobile communications devices. Key factors in conducting sound evaluations of new technologies for mobile text entry are presented, including methodology and experiment design. Important factors to consider are identified and elaborated, such as focus of attention, text creation versus text copy tasks, novice versus expert performance, quantitative versus qualitative measures, and the speed–accuracy trade-off. An exciting area within mobile text entry is the combined use of Fitts' law and a language corpus to model, and subsequently optimize, a text entry technique. The model is described, along with examples for a variety of soft keyboards as well as the telephone keypad. A survey of mobile text entry techniques, both in research papers and in commercial products, is presented.

I. Scott MacKenzie is a computer scientist with an interest in human–computer interaction, especially human input to computing systems and human performance measurement and modeling; he is an Associate Professor in the Department of Computer Science at York University. **R. William Soukoreff** is a computer scientist with an interest in human–computer interaction; he is a graduate student in the Department of Computer Science at York University.

Text Entry For Mobile Computing

I. Scott MacKenzie



Text Entry For Mobile Computing:

Text Entry for Mobile Computing I. Scott MacKenzie, 2003-07-30 The four articles in this special issue of Human Computer Interaction describe recent research in mobile text entry The issue begins with a review article that provides general comments on methodologies for evaluating new text entry techniques The next two articles present Dasher a text entry technique with an interface driven from continuous two dimensional gestures and a detailed extension to the prediction model of Soukoreff and MacKenzie The final article takes a completely different approach to modeling the text entry task As a collection the articles represent a sample of promising research initiatives in text entry for mobile computing

Text Entry for Mobile Computing I. Scott MacKenzie, 2002-11-01 The four articles in this special issue of Human Computer Interaction describe recent research in mobile text entry The issue begins with a review article that provides general comments on methodologies for evaluating new text entry techniques The next two articles present Dasher a text entry technique with an interface driven from continuous two dimensional gestures and a detailed extension to the prediction model of Soukoreff and MacKenzie The final article takes a completely different approach to modeling the text entry task As a collection the articles represent a sample of promising research initiatives in text entry for mobile computing

Mobile Computing, Applications, and Services Gerard Memmi, Ulf Blanke, 2014-03-04 This book constitutes the thoroughly refereed post conference proceedings of the 5th International Conference on Mobile Computing Applications and Services MobiCASE 2013 held in Paris France in November 2013 The 13 full 5 short and 9 poster papers were carefully reviewed and selected from 64 submissions and are presented together with 3 papers from the Workshop on Near Field Communication for Mobile Applications NFS The conference papers are covering mobile applications development mobile social networking novel user experience and interfaces mobile services and platforms such as Android iOS BlackBerry OS Windows phone Bada mobile software engineering and mobile Web mobile payments and M2M infrastructure mobile services such as novel hardware add ons energy aware services or tools NFC based services authentication services

The Inside Text R. Harper, L. Palen, A. Taylor, 2005-03-21 SMS or Text is one of the most popular forms of messaging Yet despite its immense popularity SMS has remained unexamined by science Not only that but the commercial organisations who have been forced to offer SMS by a demanding public have had very little idea why it has been successful Indeed they have until very recently planned to replace SMS with other messaging services such as MMS This book is the first to bring together scientific studies into the values that texting provides examining both cultural variation in countries as different as the Philippines and Germany as well as the differences between SMS and other communications channels like Instant Messaging and the traditional letter It presents usability and design research which explores how SMS will evolve and what is likely to be the pattern of person to person messaging in the future In short The Inside Text is a fundamental resource for anyone interested in mobile communications at the start of the 21st Century

[Computational Linguistics and Intelligent Text Processing](#)

Alexander Gelbukh, 2012-03-06 This two volume set consisting of LNCS 7181 and LNCS 7182 constitutes the thoroughly refereed proceedings of the 13th International Conference on Computer Linguistics and Intelligent Processing held in New Delhi India in March 2012 The total of 92 full papers were carefully reviewed and selected for inclusion in the proceedings The contents have been ordered according to the following topical sections NLP system architecture lexical resources morphology and syntax word sense disambiguation and named entity recognition semantics and discourse sentiment analysis opinion mining and emotions natural language generation machine translation and multilingualism text categorization and clustering information extraction and text mining information retrieval and question answering document summarization and applications

Handbook of Research on User Interface Design and Evaluation for Mobile Technology Lumsden, Joanna, 2008-02-28 This book compiles authoritative research from scholars worldwide covering the issues surrounding the influx of information technology to the office environment from choice and effective use of technologies to necessary participants in the virtual workplace Provided by publisher

Text Entry Systems I. Scott MacKenzie, Kumiko Tanaka-Ishii, 2010-07-28 Text Entry Systems covers different aspects of text entry systems and offers prospective researchers and developers global guidelines for conducting research on text entry in terms of design strategy evaluation methodology and requirements a discussion of the history and current state of the art of entry systems and specific guidelines for designing entry systems for a specific target depending on devices modalities language and different physical conditions of users Text entry has never been so important as it is today This is in large part due to the phenomenal relatively recent success of mobile computing text messaging on mobile phones and the proliferation of small devices like the Blackberry and Palm Pilot Compared with the recent past when text entry was primarily through the standard qwerty keyboard people today use a diverse array of devices with the number and variety of such devices ever increasing The variety is not just in the devices but also in the technologies used entry modalities have become more varied and include speech recognition and synthesis handwriting recognition and even eye tracking using image processing on web cams Statistical language modeling has advanced greatly in the past ten years and so therein is potential to facilitate and improve text entry increasingly the way people communicate This book covers different aspects of text entry systems and offers prospective researchers and developers Global guidelines for conducting research on text entry in terms of design strategy evaluation methodology and requirements History and current state of the art of entry systems including coverage of recent research topics Specific guidelines for designing entry systems for a specific target depending on devices modalities language and different physical conditions of users

Mobile Human-Computer Interaction - Mobile HCI 2004 Stephen Brewster, Mark Dunlop, 2004-09-01 MobileHCI is a forum for academics and practitioners to discuss the challenges and potential solutions for effective human computer interaction with mobile systems and services It covers the design evaluation and application of techniques and approaches for all mobile computing devices and services MobileHCI 2004 was the sixth in the series of conferences that was

started at Glasgow University in 1998 by Chris Johnson. We previously chaired the conference in 1999 in Edinburgh as part of INTERACT 1999 and in 2001 in Lille as part of IHM HCI 2001. The last two years saw the conference move to Italy first under the chairmanship of Fabio Paternò in Pisa then under Luca Chittaro in Udine. In 2005 the conference will move to Austria to be chaired by Manfred Tscheligi. Each year the conference has its own website hosted by the conference chair; however the address www.mobilehci.org will always point to the next or current conference. The number of submissions has increased every year. This year we received 79 full papers, 63 were received last year from which we accepted the best 25. We had 81 short papers and posters submitted, 59 last year and accepted 20 of these as short papers and 22 as posters. We received 9 workshop, 4 tutorial and 2 panel proposals from which 5, 2 and 2 respectively were accepted.

Mobile Computing: Concepts, Methodologies, Tools, and Applications Taniar, David, 2008-11-30. This multiple volume publication advances the emergent field of mobile computing offering research on approaches, observations and models pertaining to mobile devices and wireless communications from over 400 leading researchers. Provided by publisher.

Human-Computer Interaction. Recognition and Interaction Technologies Masaaki Kurosu, 2019-07-10. The 3 volume set LNCS 11566, 11567, 11568 constitutes the refereed proceedings of the Human Computer Interaction thematic area of the 21st International Conference on Human Computer Interaction HCII 2019 which took place in Orlando, Florida, USA in July 2019. A total of 1274 papers and 209 posters have been accepted for publication in the HCII 2019 proceedings from a total of 5029 submissions. The 125 papers included in this HCI 2019 proceedings were organized in topical sections as follows: Part I: design and evaluation methods and tools; redefining the human in HCI; emotional design; Kansei and aesthetics in HCI; and narrative storytelling, discourse and dialogue. Part II: mobile interaction; facial expressions and emotions recognition; eye gaze; gesture and motion based interaction; and interaction in virtual and augmented reality. Part III: design for social challenges; design for culture and entertainment; design for intelligent urban environments; and design and evaluation case studies.

Computer Human Interaction Masood Masoodian, Steve Jones, Bill Rogers, 2005-03-01. APCHI 2004 was the sixth Asia Pacific Conference on Computer Human Interaction and was the first APCHI to be held in New Zealand. This conference series provides opportunities for HCI researchers and practitioners in the Asia Pacific and beyond to gather to explore ideas, exchange and share experiences and further build the HCI network in this region. APCHI 2004 was a truly international event with presenters representing 17 countries. This year APCHI also incorporated the fifth SIGCHI New Zealand Symposium on Computer Human Interaction. A total of 69 papers were accepted for inclusion in the proceedings: 56 long papers and 13 short papers. Submissions were subject to a strict double blind peer review process. The research topics cover the spectrum of HCI including human factors and ergonomics; user interface tools and technologies; mobile and ubiquitous computing; visualization; augmented reality; collaborative systems; internationalization and cultural issues; and more. APCHI also included a doctoral consortium allowing 10 doctoral students from across the globe to meet and discuss their work in an interdisciplinary

workshop with leading researchers and fellow students. Additionally, several tutorials were offered in association with the conference.

Human-Computer Interaction -- INTERACT 2013 Paula Kotzé, Gary Marsden, Gitte Lindgaard, Janet Wesson, Marco Winckler, 2013-07-30. The four volume set LNCS 8117-8120 constitutes the refereed proceedings of the 14th IFIP TC13 International Conference on Human Computer Interaction INTERACT 2013 held in Cape Town, South Africa, in September 2013. The 57 papers included in the first volume are organized in topical sections on: 3D navigation, 3D technologies, 3D object manipulation, augmented reality, cognitive workload, cognitive workload and decision support, creating effective 3D displays, cross cultural, intercultural and social issues, data entry mechanisms and devices, design and evaluation, design and evaluation of prototypes, design to support creativity, designing for inclusiveness, designing with and for people with special needs, display manipulations and diversity, ICT in social development.

Human-Computer Interaction. Ambient, Ubiquitous and Intelligent Interaction Julie A. Jacko, 2009-07-14. The 13th International Conference on Human Computer Interaction HCI International 2009 was held in San Diego, California, USA, July 19-24, 2009, jointly with the Symposium on Human Interface Japan 2009, the 8th International Conference on Engineering Psychology and Cognitive Ergonomics, the 5th International Conference on Universal Access in Human Computer Interaction, the Third International Conference on Virtual and Mixed Reality, the Third International Conference on Internationalization Design and Global Development, the Third International Conference on Online Communities and Social Computing, the 5th International Conference on Augmented Cognition, the Second International Conference on Digital Human Modeling and the First International Conference on Human Centered Design. A total of 4,348 individuals from academia, research institutes, industry, and governmental agencies from 73 countries submitted contributions, and 1,397 papers that were judged to be of high scientific quality were included in the program. These papers address the latest research and development efforts and highlight the human aspects of the design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human computer interaction, addressing major advances in the knowledge and effective use of computers in a variety of application areas.

Universal Access in Human-Computer Interaction: Universal Access to Information and Knowledge Constantine Stephanidis, Margherita Antona, 2014-05-15. The four volume set LNCS 8513-8516 constitutes the refereed proceedings of the 8th International Conference on Universal Access in Human Computer Interaction UAHCI 2014 held as part of the 16th International Conference on Human Computer Interaction HCII 2014 held in Heraklion, Crete, Greece, in June 2014, jointly with 14 other thematically similar conferences. The total of 1,476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4,766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of human computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The total of 251 contributions included in the UAHCI proceedings were carefully reviewed and

selected for inclusion in this four volume set The 65 papers included in this volume are organized in the following topical sections access to mobile interaction access to text documents and media access to education and learning access to games and ludic engagement and access to culture

Pervasive Computing Patrik Floréen, Antonio Krüger, Mirjana Spasojevic, 2010-04-23 th Welcome to the proceedings of the 8 International Conference on Pervasive Computing Pervasive 2010 After Toronto Sydney and Nara the conference has now returned to Europe Pervasive is one of the most important conferences in the area of pervasive and ubiquitous computing As in the previous year we had two categories of technical papers Full Papers and Notes Pervasive attracted 157 valid submissions from which the Technical Program Committee TPC accepted 24 full papers and one note resulting in an overall acceptance rate of 16% The submissions included 628 authors from 27 countries representing all the continents except Antarctica As we can see from these figures Pervasive is a truly global highly competitive conference A major conference such as Pervasive requires a rigorous and objective process for selecting papers This starts with the selection of a high quality TPC We were fortunate to be able to draw on the wisdom and experience of our 28 TPC members from the most prestigious universities and research labs in Europe North America and Asia This committee was aided by the input of no less than 238 external reviewers chosen on the basis of their domain knowledge and relevance to pervasive computing The papers were selected using a double blind review with four peer reviews per paper and a discussion phase among the reviewers and a discussion of the papers in the TPC meeting which was held in Palo Alto during December 12-13 2009 We thank Nokia Research Center for hosting the meeting

Human-Computer Interaction. Interaction Platforms and Techniques Julie A. Jacko, 2007-08-23 Here is the second of a four volume set that constitutes the refereed proceedings of the 12th International Conference on Human Computer Interaction HCII 2007 held in Beijing China jointly with eight other thematically similar conferences It covers graphical user interfaces and visualization mobile devices and mobile interaction virtual environments and 3D interaction ubiquitous interaction and emerging interactive technologies

Human-Computer Interaction Julie Jacko, Constantine Stephanidis, 2003-09-01 This is the second volume in the HCI International Conference Proceedings 2003 See following arrangement for details

Human-Computer Interaction - INTERACT 2005 Maria Francesca Costabile, Fabio Paternò, 2005-09-05 We will be sooner or later not only handling personal computers but also multi-purpose cellular phones complex personal digital assistants devices that will be context aware and even wearable computers stitched to our clothes we would like these personal systems to become transparent to the tasks they will be performing In fact the best interface is an invisible one one giving the user natural and fast access to the application he or she intends to be executed The working group that organized this conference the last of a long row tried to combine a powerful scientific program with drastic refereeing with an entertaining cultural program so as to make your stay in Rome the most pleasant one all round I do hope that this expectation becomes true July 2005 Stefano Levialdi IEEE Life Fellow INTERACT 2005 General Chairman 1 Peter J Denning ACM Communications April 2005 vol 48 N 4 pp 27-31 Editors

Preface INTERACT is one of the most important conferences in the area of Human Computer Interaction at the world wide level We believe that this edition which for the first time takes place in a Southern European country will strengthen this role and that Rome with its history and beautiful setting provides a very congenial atmosphere for this conference The theme of INTERACT 2005 is Communicating Naturally with Computers **Human-Computer Interaction - INTERACT 2019**

David Lamas,Fernando Loizides,Lennart Nacke,Helen Petrie,Marco Winckler,Panayiotis Zaphiris,2019-08-28 The four volume set LNCS 11746 11749 constitutes the proceedings of the 17th IFIP TC 13 International Conference on Human Computer Interaction INTERACT 2019 held in Paphos Cyprus in September 2019 The total of 111 full papers presented together with 55 short papers and 48 other papers in these books was carefully reviewed and selected from 385 submissions The contributions are organized in topical sections named Part I accessibility design principles assistive technology for cognition and neurodevelopment disorders assistive technology for mobility and rehabilitation assistive technology for visually impaired co design and design methods crowdsourcing and collaborative work cyber security and e voting systems design methods design principles for safety critical systems Part II e commerce education and HCI curriculum I education and HCI curriculum II eye gaze interaction games and gamification human robot interaction and 3D interaction information visualization information visualization and augmented reality interaction design for culture and development I Part III interaction design for culture and development II interaction design for culture and development III interaction in public spaces interaction techniques for writing and drawing methods for user studies mobile HCI personalization and recommender systems pointing touch gesture and speech based interaction techniques social networks and social media interaction Part IV user modelling and user studies user experience users emotions feelings and perception virtual and augmented reality I virtual and augmented reality II wearable and tangible interaction courses demonstrations and installations industry case studies interactive posters panels workshops The chapter Analyzing Accessibility Barriers Using Cost Benefit Analysis to Design Reliable Navigation Services for Wheelchair Users is open access under a CC BY 4 0 license

Mobile Computer Usability Gamel O. Wiredu,2013-11-19 This book explains how mobile computer usability is shaped by the increasing integration of personal circumstances in organization It represents an attempt to conceptualize an alternative model of mobile computer usability It is motivated by the author s conviction that we do not yet have an adequate understanding of this concept because we have not taken seriously the transformation of human personality by the co evolution of organization and ICTs The author argues that the transformation has resulted in a human personality whose personal and organizational activities are characterized by strong continuities between them This characterization reflects a new kind of personality of the worker and is a critical determinant of mobile computer usability The word organizational is used to describe this kind of personality hence an alternative organizational personality perspective on mobile computer usability This perspective suggests that a mobile computer is more usable to a person than another one because of its

satisfaction of both his personal and organizational motives which are in turn shaped by the co evolution of organization technology and personality

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