Arabic Keyboard Layout

Karim Mohsen Mahmoud El Batran

Novel Text Entry and Mobile Interaction Techniques for Arabic Language Users Karim Mohsen Mahmoud El Batran,2015 Inspired by an observational study of Egyptian Agricultural Census counters, this research aims to improve mobile data entry though better form navigation and improved Arabic text entry. Four improvements were taken into consideration in sequence: (1) minimizing large forms to fit small mobile device screens and easing form navigation process, (2) optimizing Arabic keyboard layout to suit Arabic Language users, (3) introducing Gesture-based Arabic Writing Pads (GBAWPs) that fit small mobile device screens and smart watch surfaces, and (4) enhancing a quantitative prediction model to overcome the defect in modeling interactions on mobile devices. This research shows an improvement of form navigation on mobile devices. The approach is based on computerizing forms and using Panning and Zooming as a navigation technique. In order to do so, an observational study was conducted on the Egyptian Agricultural Census (EAC). However, there were considerable challenges in reducing the size of the paper forms to fit mobile devices and introducing fast navigation technique. It was concluded after computerizing the forms that using the Panning and Zooming technique scored less completion task time and workload in comparison to the tabbed navigation technique. Moreover, this research presents a new design of an Arabic keyboard layout for effective text entry on touch screen mobile phones. The approach is based on Pareto front optimization using three metrics: minimizing finger travel distance in order to maximize speed, minimizing neighboring key error ambiguities in order to maximize the quality of spell correction, and maximizing familiarity for Arabic Language users through approximate alphabetic sorting. In user studies, the new layout showed an observed improvement in typing speed in comparison to a common Arabic layout. Currently, there is an opportunity to research new optimized keyboard designs with less usage experience than QWERTY as in mainstream Western European languages. Pareto optimization can produce high quality keyboards for alphabet based languages that could be beneficial when there is less reluctance to change from QWERTY. Furthermore, this research also illustrates Gesture-based text entry as a method used for mobile devices. Its success and acceptance is critically dependent on the reliability of gesture recognition. The gesture recognition of the GBAWP is accomplished through a sequence of touched points or swipes on the screen. In order to maximize the text area field and minimize the number of keys displayed on the screen, a 12-key GBAWP interface was introduced appearing like a 12-key physical keypad phone. Considering the Arabic letters characteristics, structure, and maximizing speed, a 6-key GBAWP layout based on dot recognition was introduced. After conducting usability tests on both the 12-key and 6-key GBAWP, it was found that users could perform text entry on mobile devices using the 12-key GBAWP with an estimate of 2.9 words-per-minute on average. They also executed text entry tasks on a Sony SmartWatch 2 with an average of 3.2 words-per-minute. This could increase to an estimate of 4.5 words-per-minute on average, on the long term. While entry speeds were slow, users found it easy to use and it supports largely eyes free interaction. Gesture-based technique enables users to perform Arabic text entry on small display mobile devices and watches using both the 12-key and 6-key GBAWP. Finally, this research introduces an enhancement to KLM (Keystroke-Level Model), a quantitative prediction model predicting the user's behaviour in low-level tasks. This was acomplished by extending it with three new operators describing interactions on mobile touchscreen devices and tablets. The approach is based on Fitts' Law to identify a performance measure estimate equation for each of the introduced interactions. Three prototypes were developed to serve as a test environment in validating Fitts equations and estimating the parameters for these interactions. Three-thousand and ninty observations took place with a total of 51 users. The studies confirmed that most interactions fitted well with Fitts' Law. On the other hand, it was noticed that Fitts' Law does not fit well on small mobile device screens when the Index of Difficulty exceeds 4 bits. These results enable developers of mobile device and tablet applications to describe tasks as a sequence of operators used and predict user interaction times prior to creating prototypes.

Introduction to Arabic Natural Language Processing Nizar Y. Habash,2022-06-01 This book provides system developers and researchers in natural language processing and computational linguistics with the necessary background information for working with the Arabic language. The goal is to introduce Arabic linguistic phenomena and review the state-of-the-art in Arabic processing. The book discusses Arabic script, phonology, orthography, morphology, syntax and semantics, with a final chapter on machine translation issues. The chapter sizes correspond more or less to what is linguistically distinctive about Arabic, with morphology getting the lion's share, followed by Arabic script. No previous knowledge of Arabic is needed. This book is designed for computer scientists and linguists alike. The focus of the book is on Modern Standard Arabic; however, notes on practical issues related to Arabic dialects and languages written in the Arabic script are presented in different chapters. Table of Contents: What is Arabic? / Arabic Script / Arabic Phonology and Orthography / Arabic Morphology / Computational Morphology Tasks / Arabic Syntax / A Note on Arabic Semantics / A Note on Arabic and Machine Translation

First Contact with Arabic Language Writing System Abdelghani Azzi,2020-12-15 BOOK DESCRIPTION: Title: FIRST CONTACT with ARABIC LANGUAGE WRITING SYSTEM * Author: Abdelghani Azzi * Year of Publication: 2020 * Number of pages: 100 * Book format: Paperback * Book size: A4 (21 x 29.7 cm) (8.3 × 11.7 inches) TARGETED READERSHIP and USE: English speaking learners. * Complete beginners. * Self-instruction or Classroom learning. * Middle school, college, university. * Adult training. FIRST CONTACT with ARABIC LANGUAGE WRITING SYSTEM (FC-ALWS) deals primarily with the initial hurdle that is common to all language learning projects, the alphabet. However, an alphabet is only a part of the writing system it belongs to. With FC-ALWS the learner will work towards a perfect mastery of the whole Arabic writing system, consequently laying the optimal groundwork for further Arabic language learning projects at any higher level in any field: academic, religious, media, business etc. A book that leaves no one behind: From reading direction to the Arabic definite article, a carefully paced approach adapts to all learning speeds and styles. A book that leaves nothing behind: With phonetic concepts, step-by-step letter writing paths, letter joining diagrams, rhythmic reading, mnemonic devices, write over and write down exercises, punctuation, Arabic fonts and computer keyboard layout, with all this and more, get all the essential and none of the unnecessary. A two-colour typesetting clearly highlights new Arabic terms in either Arabic or English writing. The size of this workbook ensures a comfortable writing environment for the beginner. Discover the beauty of Arabic calligraphy and poetry with several calligraphic designs by the author. This Online Audio Content Enabled (OACE) book, gives the learner access to the translations, transliterations, spelling and pronunciation of all the Arabic textual content. All the audio content is available here: https://lisanuna.net/?page_id=44 Join the Lisānunā Forums and give a social dynamic to your learning experience. Contact the author at Lisanuna.net to get help, inquire or just let him know your thoughts about FC-ALWS and what can be done to improve future editions. GENERAL CONTENT: * Foreword: pages 1-4 * I - Basics and diacritics: pages 7-21 * II - Letter study: pages 25-69 * III - Appendices: 73-82 * IV - Glossary: pages 85-96. KEYWORDS: #Arabic, #phonetics, #language, #writing, #alphabet, #letters, # pronunciation, #Quran, #calligraphy, #audio, #mnemonics, #charts, #beginners, #self-tuition, #self-learning, #classroom, #adult_training, #glossary

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 1476 papers and 220 posters presented at the HCII 2014 conferences was carefully reviewed and selected from 4766 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.

Handbook for Arabic Language Teaching Professionals in the 21st Century Kassem Wahba,Zeinab A. Taha,Liz England,2014-06-03 This landmark volume offers an introduction to the field of teaching Arabic as a foreign or second language. Recent growth in student numbers and the demand for new and more diverse Arabic language programs of instruction have created a need that has outpaced the ability of teacher preparation programs to provide sufficient numbers of well-qualified professional teachers at the level of skill required. Arabic language program administrators anticipate that the increases in enrollment will continue into the next decades. More resources and more varied materials are seriously needed in Arabic teacher education and training. The goal of this Handbook is to address that need. The most significant feature of this volume is its pioneer role in approaching the field of Arabic language teaching from many different perspectives. It offers readers the opportunity to consider the role, status, and content of Arabic language teaching in the world today. The Handbook is intended as a resource to be used in building Arabic language and teacher education programs and in guiding future academic research. Thirty-four chapters authored by leaders in the field are organized around nine themes: *Background of Arabic Language Teaching; *Contexts of Arabic Language Teaching; *Communicative Competence in Arabic; *The Learners; *Assessment; *Technology Applications; *Curriculum Development, Design, and Models; *Arabic Language Program Administration and Management; and *Planning for the Future of Arabic Language Learning and Teaching. The Handbook for Arabic Language Teaching Professionals in the 21st Century will benefit and be welcomed by Arabic language teacher educators and trainers, administrators, graduate students, and scholars around the world. It is intended to create dialogue among scholars and professionals in the field and in related fields--dialogue that will contribute to creating new models for curriculum and course design, materials and assessment tools, and ultimately, better instructional effectiveness for all Arabic learners everywhere, in both Arabic-speaking and non-Arabic speaking countries.

The Multilingual PC Directory Ian Tresman,1993

Alarabia: A Communicative Approach to Learning Arabic for Non-Native Speakers Mahmoud Amer,2010-08-19 This book is meant to assist students learning Arabic with the basics in communication and sentence structure. Because this book focuses on the communicative aspect of using Arabic, the first few chapters will introduce students to expressions in everyday speech in a colloquial Jordanian dialect. In later chapters, however, texts written in Modern Standard Arabic (MSA) are presented and examined.

Intelligent Systems in Science and Information 2014 Kohei Arai,Supriya Kapoor,Rahul Bhatia,2015-02-13 The book Intelligent Systems in Science and Information 2014 is the carefully edited collection of 25 extended chapters from selected papers in the field of Computational Intelligence that , which received highly recommended feedback during the Science and Information Conference (SAI) 2014 review process. All chapters have gone through substantial extension and consolidation and were subject to another round of rigorous review and additional modification and represent the state of the art of the cutting-edge research and technologies in the related areas.

Arabic Type-Making in the Machine Age Titus Nemeth,2017-07-20 Arabic Type-Making in the Machine Age is an in-depth historical study of the evolution of Arabic type under the influence of changing technologies in the twentieth century.

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

Computers and the Arabic Language Pierre A. MacKay,1990 Based on papers from a Summer Session of the Arab School of Science and Technology, held near Damascus, July 1985.

Key to the Arabic Grammar of the Written Language Griffithes Wheeler Thatcher,1911

The Arabic Script in Africa Meikal Mumin,Kees Versteegh,2014-01-30 The Arabic script in Africa is a collection of sixteen papers on the past and present use of Arabic script to write African languages other than Arabic, discussing the (ethno-)historical, (socio-)linguistic, and in particular grammatological aspects of such writing traditions.

Your Computer Is on Fire Thomas S. Mullaney,Benjamin Peters,Mar Hicks,Kavita Philip,2021-03-09 Technology scholars declare an emergency: attention must be paid to the inequality, marginalization, and biases woven into our technological systems. This book sounds an alarm: we can no longer afford to be lulled into complacency by narratives of techno-utopianism, or even techno-neutrality. We should not be reassured by such soothing generalities as human error, virtual reality, or the cloud. We need to realize that nothing is virtual: everything that happens online, virtually, or autonomously happens offline first, and often involves human beings whose labor is deliberately kept invisible. Everything is IRL. In Your Computer Is on Fire, technology scholars train a spotlight on the inequality, marginalization, and biases woven into our technological systems.

A new Arabic grammar of the written language John A. Haywood,H. M. Nahmad,1976 This book is the valuable Key to A New Arabic Grammar, the bestselling introduction to the Arabic language for over thirty years. Although A New Arabic Grammar is intended primarily as a teaching grammar not as a 'teach yourself' work, it has become clear that it is being used as a means of learning Arabic by many who have no teacher, and it is principally for their benefit that this key has been prepared. The Key contains translations of the English and Arabic exercises, and of the supplementary reading pieces in Arabic. Several generations of students have found the Key a most useful tool for their studies.

Advanced BlackBerry Development Chris King,2010-02-15 BlackBerry devices and applications are selling by the millions. As a BlackBerry developer, you need an advanced skill set to successfully exploit the most compelling features of the platform. This book will help you develop that skill set and teach you how to create the most sophisticated BlackBerry programs possible. With

Advanced BlackBerry Development, you'll learn you how to take advantage of BlackBerry media capabilities, including the camera and video playback. The book also shows you how to send and receive text and multimedia messages, use powerful cryptography libraries, and connect with the user's personal and business contacts and calendar. Not only will you be learning how to use these application programming interfaces, but you'll also be building a program that takes full advantage of them: a wireless media-sharing app. Each chapter's lessons will be applied by enhancing the app from a prototype to a fully polished program. Along the way, yo'll learn how to differentiate your product from other downloads by fully integrating with the operating system. Your app will run in the browser and within device menus, just like software that comes with the phone. Once you are comfortable with writing apps, this book will show you how to take them to the next level. You'll learn how to move from running on one phone to running on all phones, and from one country to all countries. You'll additionally learn how to support your users with updates. No other resource compares for mastering the techniques needed for expert development on this mobile platform.

Computer keyboard shortcuts companion Tech Scribe,2023-11-08 Introducing the Computer Keyboard Shortcuts Companion by Tech Scribe! Are you tired of wasting precious time navigating menus and clicking through endless options on your computer? Look no further! This comprehensive guide unlocks the power of your keyboard, transforming it into a productivity powerhouse. Whether you're a writer, gamer, or just someone who wants to streamline their digital experience, this book is your ultimate companion. Key Features: Efficiency Unleashed: Discover the most essential keyboard shortcuts for Windows, from basic functions to advanced tricks. Say goodbye to mouse-induced frustration and hello to lightning-fast actions! Write Smarter: Learn keyboard shortcuts specifically tailored for writers. Whether you're drafting an email, crafting a novel, or editing a report, these shortcuts will boost your writing speed and accuracy. Game On:Gamers rejoice! We've got you covered with shortcuts that enhance your gaming experience. From executing complex moves in RPGs to managing inventory in simulations, you'll level up your gameplay. Ready to supercharge your keyboard skills? Click Add to Cart now and unlock the full potential of your computer! Get your copy of the Computer Keyboard Shortcuts Companion today and become a keyboard ninja!

Among Digitized Manuscripts. Philology, Codicology, Paleography in a Digital World L.W.C. van Lit,2019-10-29 Working with manuscripts has become a digital affair. But, are there downsides to digital photos? And how can you take advantage of the incredible computing power you have literally at your fingertips? Cornelis van Lit explains in detail what happens when manuscript studies meets digital humanities. In Among Digitized Manuscripts you will learn why it is important to include a note on the photo quality in your codicological description, how to draw, collect, and publish glyphs of paleographic interest, what standards (such as TEI and IIIF) to abide by when transcribing a text, how to write custom software for image recognition, and much more. The leading principle is that learning a little about computers will already be of great benefit.

Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance Cruz-Cunha, Maria Manuela,2014-07-31 In our hyper-connected digital world, cybercrime prevails as a major threat to online security and safety. New developments in digital forensics tools and an understanding of current criminal activities can greatly assist in minimizing attacks on individuals, organizations, and society as a whole. The Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance combines the most recent developments in data protection and information communication technology (ICT) law with research surrounding current criminal behaviors in the digital sphere. Bridging research and practical application, this comprehensive reference source is ideally designed for use by investigators, computer forensics practitioners, and experts in ICT law, as well as academicians in the fields of information security and criminal science.

<u>A New Arabic Grammar of the Written Language</u> ,1964

Unveiling the Magic of Words: A Review of "**Arabic Keyboard Layout**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Arabic Keyboard Layout**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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