

Unit 23:

Human Computer Interaction

Unit code:

T/601/7326

QCF Level 3:

BTEC National

Credit value:

10

Guided Learning hours: 60

● Aim and purpose

The aim of this unit is to ensure learners know the impact HCI has on society, economy and culture and provide the basic skills and understanding required to enable learners to design and implement human computer interfaces.

● Unit introduction

Human Computer Interaction (HCI) deals with the way people use technology. How do we give information to and receive information from computers and other digital devices? One of the biggest changes in the last 20 years has been the introduction of the graphical user interface and in many respects this has revolutionised the ways in which we interact with computers.

HCI is not confined to PCs. Consider a mobile phone or self-scan supermarket checkouts. These have carefully designed user interfaces to make them easier and faster to use. There are a number of broad definitions of HCI and these confirm that HCI is not confined to technical computing, and that the subject crosses many boundaries. It could be included in the study of philosophy, engineering, psychology, physiology, behaviour and many other areas.

The first part of this unit explores the impact of HCI on society, the economy and culture and looks at how HCI has developed and where it might be going next.

The fundamental principles involved in designing user interfaces are discussed with particular emphasis on perception, behaviour models and information processing. Specialist needs and the adaptation of interfaces to meet these varied needs will be examined.

The final part of the unit combines elements of HCI theory with learner's practical skills to enable learners to design and implement user interfaces for input and output, using a programming language of choice. Learners will evaluate interfaces and measure their effectiveness both quantitatively and qualitatively.

This unit could be combined with other units involving software development.

● Learning outcomes

On completion of this unit a learner should:

- 1 Know the impact of HCI on society, the economy and culture.
- 2 Understand the fundamental principles of interface design.
- 3 Be able to design and implement user interfaces.

Unit 23 Human Computer Interaction P1

**G. Mancini, L. Martensson, G.
Johannsen**



Unit 23 Human Computer Interaction P1:

Research Methods in Human-Computer Interaction Jonathan Lazar, Jinjuan Heidi Feng, Harry Hochheiser, 2010-02-01
Continual technological evolution has led to an explosion of new techniques in Human Computer Interaction HCI research Research Methods in Human Computer Interaction is a thoroughly comprehensive guide to performing research and is essential reading for both quantitative and qualitative methods Chapters cover a broad range of topics relevant to the collection and analysis of HCI data going beyond experimental design and surveys to cover ethnography time diaries physiological measurements case studies and other essential elements in the well informed HCI researcher s toolkit This book is a must read for anyone in the field of Human Computer Interaction The multi disciplinarian approach housed in the reality of the technological world today makes for a practical and informative guide for user interface designers software and hardware engineers and anyone doing user research Dr Mary Czerwinski Research Area Manager Microsoft Research USA Research Methods in HCI is an excellent read for practitioners and students alike It discusses all the must know theory provides detailed instructions on how to carry out the research and offers great examples I loved it Professor Vanessa Evers Professor Human Computer Studies Lab University of Amsterdam the Netherlands The book is superb comprehensive clear and engaging This is a one stop HCI methods reference library If you can only buy one HCI methods book this is the one Dr Clare Marie Karat IBM TJ Watson Research USA and recipient of the 2009 ACM SIGCHI Lifetime Service Award A much needed and very useful book covering important HCI research methods overlooked in standard research methods texts Professor Gilbert Cockton School of Design Northumbria University United Kingdom **Universal Access in Human-Computer Interaction** Margherita Antona, Constantine Stephanidis, 2023-07-08 This two volume set constitutes the refereed proceedings of the 17th International Conference on Universal Access in Human Computer Interaction UAHCI 2023 held as part of the 25th International Conference HCI International 2023 in Copenhagen Denmark during July 23 28 2023 The total of 1578 papers and 396 posters included in the HCII 2022 proceedings was carefully reviewed and selected from 7472 submissions The UAHCI 2023 proceedings were organized in the following topical sections Part I Design for All Methods Tools and Practice Interaction Techniques Platforms and Metaphors for Universal Access Understanding the Universal Access User Experience and Designing for Children with Autism Spectrum Disorders Part II Universal Access to XR Universal Access to Learning and Education Assistive Environments and Quality of Life Technologies **NASA SP-7500 Bibliography for NASA Managers**, 1984 **Technology for Large Space Systems**, 1990 **Management, a Bibliography for NASA Managers**, 1984 **Technology for Large Space Systems**, 1990 Analysis, Design & Evaluation of Man-Machine Systems G. Mancini, L. Martensson, G. Johannsen, 2014-06-28 Provides a valuable overview of human machine interaction in technological systems with particular emphasis on recent advances in theory experimental and analytical research and applications related to man machine systems Topics covered include Automation and Operator task

analysis decision support task allocation management decision support supervisory control artificial intelligence training and teaching expert knowledge System Concept and Design software ergonomics fault diagnosis safety design concepts Man machine Interface interface design graphics and vision user adaptive interfaces Systems Operation process industry electric power aircraft surface transport prostheses and manual control Contains 53 papers and three discussion sessions **F & S Index United States Annual** ,2006 **Air University Library Index to Military Periodicals** ,1999 *Readings in Computer Vision* Martin A. Fischler,Oscar Firschein,2014-06-28 The field of computer vision combines techniques from physics mathematics psychology artificial intelligence and computer science to examine how machines might construct meaningful descriptions of their surrounding environment The editors of this volume prominent researchers and leaders of the SRI International AI Center Perception Group have selected sixty papers most published since 1980 with the viewpoint that computer vision is concerned with solving seven basic problems Reconstructing 3D scenes from 2D images Decomposing images into their component parts Recognizing and assigning labels to scene objects Deducing and describing relations among scene objects Determining the nature of computer architectures that can support the visual function Representing abstractions in the world of computer memory Matching stored descriptions to image representation Each chapter of this volume addresses one of these problems through an introductory discussion which identifies major ideas and summarizes approaches and through reprints of key research papers Two appendices on crucial assumptions in image interpretation and on parallel architectures for vision applications a glossary of technical terms and a comprehensive bibliography and index complete the volume

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