LECTURE NOTES

ON

HUMAN COMPUTER INTERACTION
UNIT-I

INTRODUCTION

Human–computer interaction (HCI), alternatively man–machine interaction (MMI) or computer–human interaction (CHI) is the study of interaction between people (users) and computers.

• With today's technology and tools, and our motivation to create really effective and usable interfaces and screens, why do we continue to produce systems that are inefficient and confusing or, at worst, just plain unusable? Is it because:
1. We don't care?
2. We don't possess common sense?
3. We don't have the time?
4. We still don't know what really makes good design?

DEFINITION

• "Human-computer interaction is a discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them."

GOALS

• A basic goal of HCI is
— to improve the interactions between users and computers
— by making computers more usable and receptive to the user's needs.
• A long term goal of HCI is
— to design systems that minimize the barrier between the human's cognitive model of what they want
— to accomplish and the computer's understanding of the user's task

WHY IS HCI IMPORTANT

• User-centered design is getting a crucial role!
• It is getting more important today to increase competitiveness via HCI studies (Norman, 1990)

Human Computer Interaction Lecture Notes

Chien-Hsiung Chen

Human Computer Interaction Lecture Notes:

Computer Vision in Human-Computer Interaction Nicu Sebe,Michael S. Lew,Thomas S. Huang,2004-05-12 This book constitutes the refereed proceedings of the International Workshop on Human Computer Interaction HCI 2004 held at ECCV 2004 in Prague Czech Republic in May 2004 The 19 revised full papers presented together with an introductory overview and an invited paper were carefully reviewed and selected from 45 submissions The papers are organized in topical sections on human robot interaction gesture recognition and body tracking systems and face and head

Human-computer Interaction Keith Andrews,2017 _Data Mining and Machine Learning Applications_ Rohit Raja,Kapil Kumar Nagwanshi,Sandeep Kumar,K. Ramya Laxmi,2022-03-02 DATA MINING AND MACHINE LEARNING APPLICATIONS The book elaborates in detail on the current needs of data mining and machine learning and promotes mutual understanding among research in different disciplines thus facilitating research development and collaboration Data the latest currency of today s world is the new gold In this new form of gold the most beautiful jewels are data analytics and machine learning Data mining and machine learning are considered interdisciplinary fields Data mining is a subset of data analytics and machine learning involves the use of algorithms that automatically improve through experience based on data Massive datasets can be classified and clustered to obtain accurate results The most common technologies used include classification and clustering methods Accuracy and error rates are calculated for regression and classification and clustering to find actual results through algorithms like support vector machines and neural networks with forward and backward propagation Applications include fraud detection image processing medical diagnosis weather prediction e commerce and so forth The book features A review of the state of the art in data mining and machine learning A review and description of the learning methods in human computer interaction Implementation strategies and future research directions used to meet the design and application requirements of several modern and real time applications for a long time The scope and implementation of a majority of data mining and machine learning strategies A discussion of real time problems Audience Industry and academic researchers scientists and engineers in information technology data science and machine and deep learning as well as artificial intelligence more broadly _Human-Computer Interface Technologies for the Motor Impaired_ Dinesh K. Kumar,Sridhar Poosapadi Arjunan,2015-10-22 Human Computer Interface Technologies for the Motor Impaired examines both the technical and social aspects of human computer interface HCI Written by world class academic experts committed to improving HCI technologies for people with disabilities this all inclusive book explores the latest research and offers insight into the current limitat _Human-Computer Interaction_ Steve Howard,Judy Hammond,Gitte Lindgaard,1997-07-31 This is the proceedings of the TC13 flagship conference held biannially It reflects the state of the art in HCI in 1997 It covers a broad range of the most important developments in HCI focusing on international issues in theory interface tools and architecture HCI applications and HCI development issues _Formal Methods in Human-Computer_

<u>Interaction</u> Philippe Palanque,Fabio Paternò,1998 This volume examines the proposition that formal methods are one of the conceptual tools that can support the design of Interactive Systems understanding of their behaviour and reasoning about their properties All the approaches considered take into account some aspect of the Web environment which is one of the most successful software products of recent years millions of people use it every day in order to search for exchange and modify information As the case study in this volume it provides a familiar background against which problems can be discussed Book jacket **Human-Computer Interaction** Michael Lew,Nicu Sebe,Thomas S. Huang,Erwin M. Bakker,2007-11-04 This book constitutes the refereed proceedings of the International Workshop on Human Computer Interaction HCI 2007 Coverage in the 16 revised full papers presented includes affective detection and recognition human motion tracking multimedia data modeling and visualization HCI issues in image video retrieval learning in HCI input and interaction techniques perceptual user interfaces wearable and pervasive technologies in HCI and intelligent virtual environments *Human-Computer Interaction (HCI).* , Features the Human Computer Interaction HCI Special Interest Group of the American Society for Information Science ASIS based in Silver Spring Maryland Includes information on related conferences and other events Provides access to related articles Notes that members of HCI have a special interest in human computer interaction interface design usability testing and effective online communication Links to the home page of the ASIS and its other special interest groups <u>Human-computer Interaction</u> Peter Johnson,1992 This text provides an overview of the fundamental aspects of cognitive psychology which introduce the reader to the theoretical and empirical findings about human memory learning knowledge representation and skill acquisition The coverage of these topics in the early chapters is related to HCI by providing examples and illustrations of user interface designs The book then considers the range of models that have been developed in HCI giving examples of where these models have been used and discussing the strengths and weaknesses of the various approaches **Human-computer Interaction** Gavriel Salvendy,Michael James Smith,1993 Hardbound A total of 1 642 individuals from industry academia research institutes and governmental agencies from 41 countries submitted their work for presentation to HCI 93 Only those submittals which were judged to be of high scientific quality were included in the program These papers address the latest research and application in the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction including the cognitive social ergonomic and health aspects of work with computers Major advances in knowledge and effective use of computers in a variety of diversified application areas including offices financial institutions manufacturing electronic publishing construction and health care are addressed **Human-computer Interaction--INTERACT.** ,1990 **Human-Computer Interaction. Interaction Contexts** Masaaki Kurosu,2017-06-28 The two volume set LNCS 10271 and 10272 constitutes the refereed proceedings of the 19th International Conference on Human Computer Interaction HCII 2017 held in Vancouver BC Canada in July 2017 The total of 1228 papers presented at the

15 colocated HCII 2017 conferences was carefully reviewed and selected from 4340 submissions The papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems They 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 papers included in this volume cover the following topics games in HCI mobile and wearable interaction HCI children and learning and HCI in complex human environments **Human-computer Interaction--INTERACT '90** Dan Diaper,1990 The past decade has seen the growth and diffusion of information technology exceeding most predictions even those of many optimistic researchers At the same time there has also been a substantial increase in concern for the human aspects of computing and information technology systems Brought together in this book are 150 papers presenting discussing and surveying recent research into Human Computer Interaction Included are a number of case studies describing a wide range of applications and projects **Human-Computer Interaction - INTERACT '87** Hans-Jörg Bullinger,B. Shackel,Klaus Kornwachs,1987-11 Since the first INTERACT Conference in September 1984 the field of Human Computer Interaction has received increasing attention from researchers and industrial practitioners the importance of the topic now being widely recognized Technological developments have made it possible to seek new solutions to the problem of supporting work processes by information technology and for designing the interface between user and the machine Computers have become an everyday and common tool in the work of many people This has motivated the development of an interdisciplinary field of research which now appears much more established than it was a few years ago The INTERACT forums provide the opportunity for regular presentation and discussion of new results from research and application by bringing together the various disciplines and research approaches on a worldwide basis

Color in Human-computer Interaction Chien-Hsiung Chen,1998 (Japan),1997

Readings in Human-computer Interaction Ronald M. Baecker,William A. S. Buxton,1987 Resources in Human-computer Interaction ,1990 ,1997 **Human Computer Interaction** Panayiotis Zaphiris,2008-10-01 This reference book penetrates the human computer interaction HCI field a wide variety of comprehensive research papers aimed at expanding the knowledge of HCI Provided by publisher

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