

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)

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