NPTEL Video Course - Computer Science and Engineering - NOC:User-centric Computing for Human-Computer Interac

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Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to UCC and history
Lecture 2 - Issues and challenges
Lecture 3 - Latest research trends
Lecture 4 - User-Centric Design and Software Engineering
Lecture 5 - Components of SDLC - Contextual Inquiry
Lecture 6 - Components of SDLC - Design Guidelines
Lecture 7 - Components of SDLC - Prototyping
Lecture 8 - Case study (web site design)
Lecture 9 - Introduction to User-Centric Computing
Lecture 10 - The UCC framework with illustrative case study
Lecture 11 - User-centric models - introduction and descriptive models
Lecture 12 - User-centric models - predictive models and taxonomy
Lecture 13 - Introduction to GOMS family of models
Lecture 14 - Keystroke-Level Model (KLM)
Lecture 15 - (CMN)GOMS Model
Lecture 16 - The Fitts' Law
Lecture 17 - The Hick-Hyman Law
Lecture 18 - 2D and 3D pointing models
Lecture 19 - The Steering Law for constrained navigation
Lecture 20 - Model for hierarchical menu selection
Lecture 21 - Mobile typing models (single finger and two thumb typing)
Lecture 22 - Model for touch performance (FFitts' law)
Lecture 23 - Introduction to formal models in UCD
Lecture 24 - Formal modeling of user-computer dialogue
Lecture 25 - Case studies on the use of models
Lecture 26 - Introduction and research question formulation
Lecture 27 - Variables determination and experiment design
Lecture 28 - Data analysis including model building
Lecture 29 - Introduction to user-centric design evaluation and expert evaluation technique

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Lecture 30 - User evaluation, empirical and model-based evaluation
Lecture 31 - Concluding remarks