

Unit 7 - Week 4: Computational user models (classical)

Course outline

How does an NPTEL online course work?

Week 0: Assignment on Prerequisites

Week 1: Introduction

Week 2: Engineering User-Centric Systems

Week 3: User-Centric Computing

Week 4: Computational user models (classical)

Lec 14: Keystroke-Level Model (KLM)

Lec 15: (CMN)GOMS Model

Lec 16: The Fitts' Law

Lec 17: The Hick-Hyman Law

Quiz : Assignment 4

Weekly feedback form for week 4

Solution: Assignment 4

Week 5: M5-Computational user models (contemporary)

Week 6: Formal system models

Week 7: Empirical Research Methods

Week 8: User-Centric Design Evaluation

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Assignment 4

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-02-26, 23:59 IST.

- 1) Which of the following statement(s) about (Keystroke Level Model) KLM is/are false?
I. KLM is the first among the four proposed models of the GOMS family
II. KLM can capture individual traits of a user
III. KLM allows us to analyze the quality of our design
IV. KLM analysis is known as "sequential task analysis"

1 point

- I, II and III
 II only
 II and IV
 I, III and IV

No, the answer is incorrect.
Score: 0

Accepted Answers:
II and IV

- 2) In the Keystroke Level Model (KLM), there are _____ operators. The operators are divided in _____ groups.

1 point

- 7,3
 8,3
 8,4
 7,4

No, the answer is incorrect.
Score: 0

Accepted Answers:
7,3

- 3) How are the model parameters A and B in Hick-Hyman Law determined?

1 point

- Randomly
 Using the interface dimensions
 Empirically
 All of above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Empirically

- 4) Fitt's law is specifically used to model performance of _____ movements

1 point

- manual
 horizontal
 vertical
 angular

No, the answer is incorrect.
Score: 0

Accepted Answers:
manual

- 5) There are _____ "rules of thumb" or "heuristics" to help decide on placement of M.

1 point

- Three
 Five
 Seven
 Nine

No, the answer is incorrect.
Score: 0

Accepted Answers:
Five

- 6) Target acquisition accuracy increases if we perform the task slowly. This violates the _____ assumption of the Fitt's law.

1 point

- error free task
 aimed task
 consistency
 rapid movement

No, the answer is incorrect.
Score: 0

Accepted Answers:
rapid movement

- 7) KLM allows us to
(I) analyze the quality of our design
(II) compare alternative designs

1 point

- Only I is true
 Only II is true
 Both are true
 Both are false

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both are true

- 8) The following three are the basic assumptions for the Fitts' law to be applicable.

1 point

- Rapid, aimed, and error free
 Rapid, fist, and error free
 Aimed, task, and movement
 Think, aimed, and move

No, the answer is incorrect.
Score: 0

Accepted Answers:
Rapid, aimed, and error free

- 9) In the (CNM) GOMS, the 'goal-sub goal' recursion stops only when _____.

1 point

- the method for all sub goals contains null values
 the method for a sub goal contains only operators
 the method for the main goal contains only sub goals
 there is a selection rule

No, the answer is incorrect.
Score: 0

Accepted Answers:
the method for a sub goal contains only operators

- 10) According to the Hick-Hyman law, how is reaction time affected with the increase in uncertainty about the judgment or decision to be made?

1 point

- Reaction time increases
 Reaction time decreases
 Reaction time is not affected at all
 Reaction time is uncertain

No, the answer is incorrect.
Score: 0

Accepted Answers:
Reaction time increases