

Engenharia Informática (FCT/UNL)

Interacção Pessoa- Máquina

Exame

Duração: 2h

- 1) Explain the importance of task analysis as a first step in the user-centered design process.
- 2) Briefly describe three techniques that can be used to collect information during the task analysis.
- 3) In the scope of interface design, comment the sentence: "Not all the knowledge needed for a specific conduct has to be in the head."
- 4) Explain the "Interaction Framework" proposed by Abowd & Beale.
- 5) Identify the main reasons that make the paper prototypes appropriate during the early stages of interface design.
- 6) Which of the following problems are least likely to be revealed by testing a paper prototype?
 - a) The help menu is not in the proper position.
 - b) The users do not know the term "algorithm".
 - c) The toolbar buttons are too small.
 - d) The system does not provide a specific essential functionality.
- 7) Describe the formal process of heuristic evaluation (including the consolidation of the evaluations of the several experts).
- 8) The use of metaphors can facilitate the communication of the conceptual model. However, the use of metaphors may also cause some problems. Indicate which ones and justify.

9) Command-based interfaces violate some of the usability heuristics.

- Indicate the two most relevant ones and justify your answer.
- Identify the advantages to this style of interaction.

10) Identify the graphic design problems in the following Web page.

The screenshot shows a Microsoft Internet Explorer window displaying a website. The website has an orange background. The browser's address bar shows 'http://www.notopublish.com'. The website content includes a 'Bibliografia' section with a list of books, a 'Classificações' table, and a 'Trabalho práticos' section with links to 'Trabalho 1', 'Trabalho 2', and 'Trabalho 3'. There are also links for 'Horários' and 'Consultar soluções aqui'. The browser's status bar shows 'My Computer'.

Arrows point to various design issues on the page, labeled with colors:

- Purple: Points to the 'Human-Computer Interaction' link in the bibliography.
- Yellow: Points to the 'Consultar soluções aqui' link.
- Blue: Points to the 'Trabalho práticos' link.
- Red: Points to the 'Trabalho 1' link.
- Purple: Points to the 'Trabalho 2' link.
- Green: Points to the 'Horários' link.
- Yellow: Points to the 'Trabalho 3' link.
- Orange background: Points to the overall orange background of the page.

Grupo	Nota
85628, 78575, 94885	14
74661, 94116, 54653	15
65899, 88748, 97467	9
68345, 79243, 91984	15
85538, 76435,	12
77441, 69364, 89176	10

Próxima deadline: 10 de Dezembro

Trabalho práticos: [Trabalho 1](#) [Trabalho 2](#) [Trabalho 3](#)

Horários

Consultar soluções [aqui](#)

The remaining text is in black.

BOM TRABALHO!