

COMPUTER SCIENCE TRIPOS Part IB – 2018 – Paper 7

7 Further Human–Computer Interaction (AFB)

Imagine that you have been asked to implement a radical new design of your college website. The Senior Tutor has decided that, to make the college seem friendlier, the home page and navigation should be implemented using a group photograph of all members of the college that was taken last summer. Your task is to design graphical content that will be overlaid onto the photograph to provide all necessary information and navigation.

- (a) Draw a sketch showing the main graphical features of your proposed design. (A few stick figures will be adequate to represent the original photograph. No additional marks will be given for realistic depictions of members of your college.) [4 marks]
- (b) Explain how the display plane of the photograph has been segmented in your proposed design, including explanation of any visual marks that were used to achieve this segmentation. [6 marks]
- (c) Choose *five* specific visual aspects of your proposed design, and for *each* of these five:
- (i) Describe the graphical property used to implement this aspect (by reference to your sketch); and
 - (ii) Explain the mode of correspondence between this graphical property and the meaning that is intended in this aspect of your design.

[10 marks]