HCI - Paper 9 Question 1 (AFB) 2005

A company that sells both spreadsheets and word processors has received complaints from users in the banking industry. The users often copy data from spreadsheets into letters offering special finance terms to individual customers. The default behaviour of the word processor "paste" command is simply to insert the numeric value, whereas a special option (in the "paste special ..." dialog) inserts a recalculating formula. The special option is used so regularly that users have requested an extra item on the pop-up (right click) menu.

- (a) How would you estimate the increase in operation speed that might result from this change?

 [6 marks]
- (b) How would you confirm the actual speed increase after constructing a prototype? [4 marks]
- (c) The design team suggest an alternative that the word processor should be enhanced with sufficient calculation functions that a spreadsheet is not needed at all. What factors should they take into account in order to assess the effect this would have on user tasks? [10 marks]

ANSWER FROM PACE 30-33 OF LECTURE NOTES

- a) () mark ser inestrois ser, Den sperioris ser, Confirmed procedure, Dear openioris ser, Dear starts in nescription, Dear churcing ossavaros, And For a usatur resort
- b) (1) man real identifició como experiments,

 (1) for sample procedure, (1) for confinisos

 Of neros, (1) for significante test
- C) (1) MANK FOR IDENTIFYING USE OF CDS, (1) RER SUSCIFICATION DELATIVE TO OCTURE METHODS
 - (2) NAMES (OR DESCRIPTION OF THEMS IS SUTABLE
 ACTIVITY TERMS

FOR EACH DINESSION NAMED: () MARK FOR MINE () MANK FOR RELEVANCE TO ACTUTY, () MANK FOR IMPRENESHMEND IN WARD PROCESSOR OR SPREADSHEET (FULL MANKS OTHER FOR NOTE PINESSIONS, or FELCH DINESSION MORE FULLY EXPLANED)

PARCE 9 QUESTOS 1 (HCI) - MOSEL ASSUR (A) THE VADYSTROVE LEVEL LOOPE COMO BE 1500. power The TO ORD DIMOG & SETTER HEM IT FOLLOWS: MK - PROPORE R- NOVE TO EDIT MENY (From KITS' LAW A Klog TIMBET P2- were to "PASIE SPECIAL" (FINTS (AN ACAI) R - SYSTEM RESEOSE TO ROSE DIOTOS - reson freemos (Decens of CHURCIE MODE) P3 - NOVE TO RECOLUMNSE OPTION V - cuck or Brown Py - NOVE TO DIMOR "OK" K- cuck or 3000 CONFIRE TO SIMPLE 135015: m - preprie & - want anak P5 - SERECT From meder - ASSUME = P2 SO SAVISG U TREE M+2K+ P1+P3 +P4, PERHAPS AROUND 2 SECONDS. BETTER EXIMITE Could BE BASED OF MOTHE DISTANCE From Refor to made it erose to concurre firs' (n) RAMANES. (B) Controved Effectivent, MXISG & Char of JEDIS TO CAMY ON THE SAME TASK USING ENEST OF THE ANTERIAL MARTINES (MINALS SUBSETS CONDITIOS) WET EVERT PENSOS TO ASSERDET MULTIPLE TRIVERS, AND SAMPLE A MAKE OF USENS. AND USE A RAPLE OF SANFIE WOKS DOCUMENTS. Concurred mente PERFORMATE V ENCH CONDITIES, PERENCIE METHER THE MARRIED DESKY SHOUS NEWS PERFORMICE THAT IS SUFFICIENTLY FIRED NOT BE THE RESULT OF RANDOM VARIATION BETWEEN SAMPLES (SKALFICAKE FEST, DESCRISED REUNIETO STANDARD DESLATION IS TERMS OF A P VALUE)

BECONSE THE POSSIBLE KINDS OF CONCULATION ONE MICHE
WANT TO CARM OUT VAMY SO AMOND THE BEST APPROACH
TO USABILITY EMPLUMOND WOULD BE ACCUPANTS IN TERMS
OF THE COCHITIVE DINDISIONS OF NOWMONDS RATHER
THAN FOCUSING OF REPREMED THINKS SUCH AT PARTING OF
A CALCULATED VATUE (WHICH CAN BE ASSESSED USING
KIM), COCHITIVE DINESSIONS FOCUSED ON THE TASKS
INDUMED IS MANICULATING IMPORTANCES SALVETURE

FROM EXISTEDA POCUMENTS, AND MORFIEMED WHENTE PAU FORMULAE ARE ISSONTO. FOR THIS APPLICATION, IT SERVERS UNVILLA THAT EXPLORATION DESIGN WOULD BE INDUCED (EPIRADSHEES WOULD BE MORE LIKERS FOR THAT)

MSCOSIM IS UNIVERS TO BE & PROBLET (IF NO EXCHANGED DESIGN)

THE PREVIOUS NOW SHOWS CHARLY WHERE DAMA

HAS CONE FROM

MYSIWYG SYSTEM - COURD PERHAPS USE THE CONET MECHANISM OF THE WORD PROSTER

Computer Science Tripos Part II 2005

Paper 9 Question 1

AFB — Human–Computer Interaction