An Empirical Evaluation of a Collaborative HCI System

Spatio-Temporal Collaboration Questionnaire (STCQ)

Instructions: For each of the following dimensions **[TSIA, NC, SC, AO]**, read carefully its definition, and for the questions / statements, mark <u>one</u> box that best describes your reactions to the tested application / interface.

Application / Interface

☐   Application / Interface X.
☐   Application / Interface Y.

Session

Date/Time: _____

Task: ☐ 1   ☐ 2

[TSIA] Transitions between Shared and Individual Activities: The interplay between individual and group efforts, including the ability to switch between these, within the scope of collaborative work.

TSIA.1   How many of your efforts during this task would you consider to have been *individual* efforts?

none	a few	some	a lot	every
○	○	○	○	○

TSIA.2   How many of your efforts during this task would you consider to have been *group* efforts?

none	a few	some	a lot	every
○	○	○	○	○

TSIA.3   According to your impression, who was more in a leading / directing role during the *group* efforts?
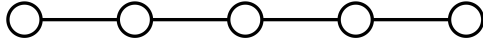
mostly other	more other, some me	both equally	more me, some other	mostly me
○	○	○	○	○

[NC] Negotiation and Communication: Verbal conversation (i.e., talk) facilitated through the ability of utilizing nonverbal information cues in order to discuss and interpret any task-related aspects of the activity (e.g., findings in the data, roles and structure of task approach, and so on).

NC.1   According to your impression, how often did you communicate *verbally* to your partner?

never	rarely	sometimes	often	constantly
○	○	○	○	○

NC.2   According to your impression, how often did you communicate *nonverbally* to your partner?

never	rarely	sometimes	often	constantly
○	○	○	○	○

NC.3   How often would you consider did *dialog* take place?

never	rarely	sometimes	often	constantly
○	○	○	○	○

NC.4   How often would you consider did *negotiation* take place?

never	rarely	sometimes	often	constantly
○	○	○	○	○

NC.5   Who would you say mostly initiated the *negotiations*?

mostly other	more other, some me	both equally	more me, some other	mostly me
○	○	○	○	○

Please continue on the next page.

[SC] Sharing Context: Characteristics and features of the shared space that facilitate and support focused and unfocused collaborative work, leading to shared understandings.

SC.1   The collaborative features of the system allowed me to focus on the same subject as my partner.

strongly disagree — disagree — neutral — agree — strongly agree

SC.2   The collaborative features of the system allowed me to establish a dialog with my partner.

strongly disagree — disagree — neutral — agree — strongly agree

SC.3   The collaborative features of the system distracted me from my *individual* efforts.

strongly disagree — disagree — neutral — agree — strongly agree

[AO] Awareness of Others: The ability to understand your partner's activity during times of (1) focused collaboration and active communication (i.e., *group* efforts), as well as (2) more independent and *individual* work.

AO.1   During your *group* efforts, how much were you aware of your partner's activities?

not at all — a bit — some — a lot — always

AO.2   During your *group* efforts, how much were you aware of your partner's location in space?

not at all — a bit — some — a lot — always

AO.3   During your *group* efforts, how much were you aware of your partner's time reference (time point / interval)?

not at all — a bit — some — a lot — always

AO.4   During your *individual* efforts, how much were you aware of your partner's activities?

not at all — a bit — some — a lot — always

AO.5   During your *individual* efforts, how much were you aware of your partner's location in space?

not at all — a bit — some — a lot — always

AO.6   During your *individual* efforts, how much were you aware of your partner's time reference (time point / interval)?

not at all — a bit — some — a lot — always