Psychometric questionnaires [PQ] are important elements of psychological studies. Standard PQ form: Paper
- Several submissions per day
- Major adherence problems
PQ apps may help!
Target PQ: Interpersonal circumplex
- Interpersonal perceptions along two axes: Cold-warm and assured-unassured

Objectives and Methods

- Objectives
  - Develop an app for interpersonal circumplex
  - Test conventional and novel interfaces against the paper control
- Methods
  - Adherence [on-time reporting? yes/no]
  - Time performance
  - Redundant taps
  - Subjective feedback
    - NASA TLX
    - Usability questionnaire

Experimental Design

- $n=20$ healthy adults (8 M, 12 F)
- Ages ranged from 21 to 53
- Crossover design
- Treatments
  - Paper – C
  - e-Paper Interface – M1
  - Row-Column Interface – M2
  - Two-slider Interface – M3
- Each treatment lasted a day
- Subject had to circumplex six times / day

Conclusion

- Study adherence tends to increase significantly when moving from paper to mobile forms
- Moral: Do not innovate without a good reason
  - The traditional design in mobile form (e-Paper) gave the best results

Future Work

- Expand the study to pathological subjects
- Analyze the disorder factor in study adherence