NSF Haptic Project Meeting Agenda (4/1)

Attendees: Christie, Clamann, Gil, Jeon, Lee, Qin, Tupler, Yu, Zhu

Agenda

1. Need new tasking before full experiment.
2. Review of current tasking
   a. Gukho
      i. Assign new tasks to each one.
   b. Michael & Gukho
      i. Responsible for drafting the submission for the journal article for the present study
   c. Zeno & Janet
      i. Responsible for Pre-and Post-testing portion of the experiment & data analysis
   d. Caesar
      i. Responsible for ROCF image preparation and scoring
   e. Biwen
      i. Responsible for therapy session of the experiment & data analysis
   f. Linus
      i. Responsible for developing full-experiment features in VR Block design.
   g. Linus & Gukho
      i. Responsible for updating current VR BD program.
3. Current status of reduced experiment
   a. Recruited:
      i. 48
   b. Completed:
      i. 21 Subjects
         1. 8 subjects: Native block design
         2. 7 subjects: Basic VR
         3. 6 subjects: Aug. VR
   c. Rejected:
      i. 27 Subjects
         1. Less than 90% of Edinburg Handed Inventory
         2. And other reasons
4. Data Analysis (Biwen)
   a. Learning analysis based on therapy session (8 trials * 18 subjects)
      i. Learning %, slope of coefficient, power calculation, ANCOVA using first trial group as a covariate, gender effect, etc.
   b. Pre & post test analysis based on MR & native BD scores (2 types * 18 subjects)
   c. ROCF score comparison:
      i. ROCF scoring using Yingjie’s scoring program
      ii. ROCF scoring using Dr. Tupler’s program
iii. Compare the results

5. Preparation of full experiment
   a. Linus
      i. Working on adding GAIN control function (adjusting C/R ration to reduce muscle fatigue).
      ii. And other features.
   b. 3DTV driver update (SONY BRAVIA) (Linus)
      i. NVIDIA supports 3DTV, but did not support OpenGL.

6. Publication:
   a. Dr. Kaber suggested “Assistive Technology” journal
      i. http://www.tandf.co.uk/journals/UATY