Postdoctoral Fellow

Robotics Institute, Carnegie Mellon University

To better understand the dynamics of human communication, we use real-time manipulation of human communication during a video-conference. To extend this effort, we seek a postdoctoral fellow to take charge of developing a next-generation lab; The lab includes two video conference rooms, equipped with high resolution cameras and auto-stereoscopic 3D displays and connected by audio and video that can be manipulated in real time for alternating head motion, facial expressions and other audio and visual behaviors. Challenges include line-of-sight viewpoint, higher real-time video resolution, use of auto-stereoscopic 3D displays, detection and modification of specific facial signals, coordinated gesture, and improved audio manipulation. Candidate fellows should have:

1. solid technical background in computer vision, especially in the area of human face and body analysis;
2. interest in related fields of human communication, speech, graphics, and human-computer interaction; and
3. knowledge, experience, and motivation to build an actual lab facility.

To apply, please send CV, (at least) three references for recommendation (the letters themselves are not needed at first), links to relevant publications, and statement of interest.