REMOCOP: Remote collaboration platform for the next generation remote collaboration support system

Augmented remote collaboration for moving beyond face-to-face environments

REMOCOP is a platform that offers easy development of productive remote collaboration systems by shared use of the user’s favorite tools/applications while providing smooth discussions and intuitive operation/instructions. It augments collaboration by sensing human intent via NUI\(^1\) and converting the results into comprehensible form, which allows us to surmount the limits of face-to-face meetings.

**Features**

- HTML5-based platform of device control and AR overlay, which enables easy development of productive remote collaboration systems.

- Overlay timing control of live video, shared application, and AR information, which helps users to convey ideas.

- The multi-modal interface consists of suitable devices for each function, such as communication, remote control, & instructions, and doesn't require input mode switching by users.

- Easy deployment of support functions that analyze sensor data and convert it into comprehensible form using cloud resources.

**Application Scenarios**

- Creative collaboration, such as industrial design and movie editing, which require bidirectional application remote control, pointing and drawing.

- General meeting situations, such as decision-making, reporting and brainstorming, with images, videos, PDF and so on.

- Remote education or remote assistance in which instructors teach the inexperienced interactively.

*1 NUI (Natural User Interface): Human-machine interfaces that provide natural and intuitive interaction such as gesture control with infrared sensors and voice control with speech recognition.

*2 AR (Augmented Reality): Experience enhancing technologies that overlay computer-generated objects on the real-world.