



TELE- OPERATION

INTRODUCTION

Tele-operation Interface (TOPI) provides a platform for developers to develop a web-based tele-operation infrastructure that allows an operator to tele-operate a remote robot and communicate with remote parties over the Internet.

FEATURES

- + **Tele-operation** - Interface for controlling the robot remotely and the pan, tilt, zoom of the camera
- + **Two-way real-time communication** - Interface for two-way real-time audio and video communications between the operator and distant parties
- + **Cross browsers and device independent** – Supports most common desktop web browsers and mobile devices
- + **User management** - User registration, login and logout feature.
- + **Ease of use** - Control or drive the robot through the web interface or any external devices

POTENTIAL APPLICATIONS

- + Tele-presence robot for healthcare with autonomous navigation
- + Non-Robotic Applications (e.g. video conferencing, games, video surveillance system)
- + Autonomous exploration of hazardous or remote environments
- + Undersea salvage
- + Education Applications