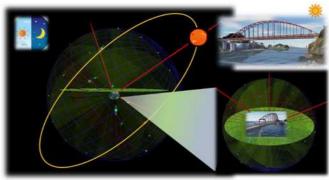
Name	Job Title	Area of Expertise
OKUMATSU Toshihiro	Professor	Maintenance Engineering/
		i-Construction

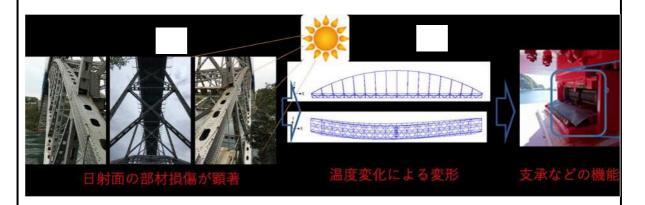
1. Main Research Topic

UAVs have been representative infra-monitoring tools or platforms nowadays. However, there remains some risks for controlling and positioning of the object, and this could consequently lead to secondary accident. We are now developing localization, visualization, and path planning systems for infra-structure monitoring, which consist of sensing techs, such as RTK-GNSS, TS, and SfM (Structure from Motion) techs. By above, Unmanned autonomous construction system using sensor network is under developing.

- ① Autonomous control by using GNSS for bridge detailed inspection
- ② Research on the correlation with solar radiation and temperature of bridge
- **3D** visualization of bridge support behavior by using stereogram
- **4** Unmanned autonomous construction system using sensor network







2. Keywords

GNSS, Bridge maintenance, Bridge vibration monitoring, i-construction, Environmental vibration

3. Remarks and Websites

Field measurement and developing Autonomous system related civil engineering field are welcome with future considerations.

researchmap: https://researchmap.jp/read0097496 **Laboratory:** https://www.cee.nagasaki-u.ac.jp/