

Name OKUMATSU Toshihiro	Job Title Professor	Area of Expertise 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 ③ 3D visualization of bridge support behavior by using stereogram ④ Unmanned autonomous construction system using sensor network 日射面の部材損傷が顕著 温度変化による変形 支承などの機能		
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.cce.nagasaki-u.ac.jp/		