

Infrastructure Management Area

This research area develop (1) systematic methodologies for asset and risk managements to solve various decision-making issues with the plan, design, maintenance, and operation of infrastructure, and (2) frontier element technologies, including simulation, monitoring, and sensing systems, for obtaining information for its decision-making.

Research Topics

1. Urban Heat Island and Risk Analysis of Atmospheric Environments
2. Evaluations of river environments
using indices of Benthic Macroinvertebrate community structure
3. Statistical deterioration prediction model and LCC analysis of infrastructures
4. Infrastructure risk and knowledge management
5. Application of remote sensing for global environment and disaster prevention
6. Slope disaster monitoring system by wireless micro sensor network and GIS

Staff

Dr. Masahiro TAMAI, Associate Prof. tamai@civil.eng.osaka-u.ac.jp

Dr. Kiyoyuki KAITO, Associate Prof. kaito@civil.eng.osaka-u.ac.jp

Dr. Keigo KOIZUMI, Assistant Prof. koizumi@civil.eng.osaka-u.ac.jp