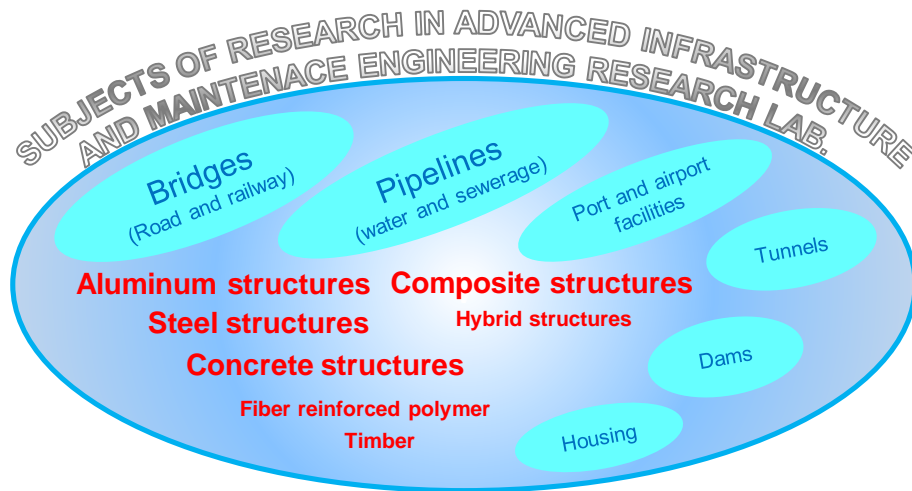


# Advanced Infrastructure Design and Maintenance Engineering Research Laboratory, Department of Civil Engineering, Division of Global Architecture

## Research Area

1. Design method of infrastructures constructed various types of structures. (New materials and new structural systems)
2. Maintenance of infrastructures (Nondestructive inspection and real-time monitoring)
3. Management of infrastructures (Lifecycle management and Asset management)



Subject structural types of researches

Design	Construction	Maintenance
Fracture mechanism Durability Fatigue Application of new materials Development of new structural system	Nondestructive inspection, Real-time Monitoring	Repair, Retrofit Life cycle management Asset management

Research area

Lab. Page

<http://civil-bridge.sakura.ne.jp/5kouza/Home.html>

## Research Topics

1. Nondestructive inspections and monitoring technology (Fig.1, Fig.2)
2. Development of new style bridges applied new materials and structural system (Fig.3, Fig.4)
3. Evaluation of performances of existing structures and development of new evaluating method (Fig.5, Fig.6)

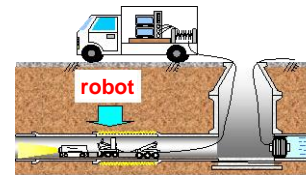


Fig.1 Inspection with robot



Fig.2 Inspection robot (Dr.Impact)



Fig.3 Aluminum girder



Fig.4 Aluminum Deck



Fig.5 Wheel load running test



Fig.6 Development of new test method

## Staff

Prof. Toshiro KAMADA

( TEL : +81-6-6879-7619, e-mail : kamada@civil.eng.osaka-u.ac.jp )

Assoc. Prof. Ichiro OKURA

( TEL : +81-6-6879-7620, e-mail : okura@civil.eng.osaka-u.ac.jp )

Asst. Prof. Koki TERASAWA

( TEL : +81-6-6879-7618, e-mail : Terasawa@civil.eng.osaka-u.ac.jp )