



KAWASAKI Lab.

[Environmental and Disaster Problem Solving]

International Center for Urban Safety Engineering (ICUS)

<http://icus.iis.u-tokyo.ac.jp/index.html>

Watershed Environmental Change Adaptation Planning

Comprehensive problem solving using Geospatial

Research Subject:

- Watershed environmental change adaptation strategy
- Developing disaster information dissemination system in developing countries

Latest Research Topics

- ◆ Game theory approach to transboundary impacts of hydropower development
- ◆ Evaluating potential impact of climate and land-use change on water resources
- ◆ Investigating disaster information dissemination system for local community in rural mountainous area

Main study area: Mekong Countries

Study Area:

- Myanmar
- Lao PDR
- Thailand
- Cambodia
- Viet Nam

Research Partner

- Asian Institute of Technology
- Cantho University
- Mekong River Commission
- United Nations University Institute for Sustainability and Peace

Land-use modeling up to 2033 in the Mekong Region

(Original data from MRC)

Year	Forest	Agriculture	Grass/Shrub	Urban	Inactive
2003	~80%	~15%	~5%	~0%	~0%
2013	~70%	~20%	~5%	~5%	~0%
2023	~60%	~25%	~5%	~10%	~0%
2033	~50%	~30%	~5%	~15%	~0%

Comparing cooperative strategy using Game Theory

Core Stability and Incentive Compatibility

