



International Center for Urban Safety Engineering (ICUS)

都市基盤安全工学国際研究センター

Institute of Industrial Science

生産技術研究所

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

● Sustainable Engineering Division ● Urban Safety and Disaster Mitigation Division

● Infrastructure Information Dynamics Division

● サステナブル エンジニアリング部門 ● 都市防災 安全工学部門 ● 都市基盤情報ダイナミクス部門

Outline of ICUS センターの概要

The International Center for Urban Safety Engineering (ICUS), Institute of Industrial Science (IIS), University of Tokyo, was established in April 2001. Since its establishment, various activities have unfolded at the ICUS, with "advanced research," "network formation" and "information gathering and distribution," forming the core activities for enhancing urban safety. There are three divisions for advanced research namely: (1) Sustainable Engineering Division; (2) Urban Safety and Disaster Mitigation Division, and (3) Infrastructure Information Dynamics Division. By integrating the research findings accumulated in IIS, research activities have been carried out aggressively, aiming for the realization of a safe and comfortable urban system in the 21st century.

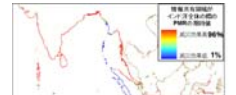
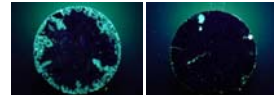
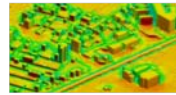
都市基盤安全工学国際研究センター(ICUS)は、2001年4月に東京大学生産技術研究所内に設立されました。サステナブル・エンジニアリング部門、都市安全・防災工学部門、都市基盤・情報ダイナミクスの3部門を対象とする「先端研究の実施」、「ネットワークの構築」、「情報の収集と配信」を主要な活動として位置づけ、21世紀の安全で快適な都市の実現を目指して様々な活動を展開しています。

Advanced Research 先端研究

Sustainable Engineering Division

サステナブル・エンジニアリング部門

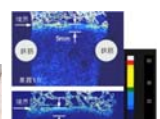
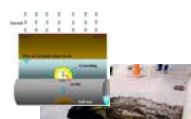
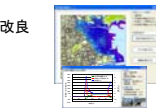
- Lifecycle Management ライフサイクルマネジメント
- Management of Technology 技術マネジメント
- Performance Verification / Quality Assessment 性能検証/品質評価
- Soil improvement by means of microorganism 微生物機能を利用した地盤改良



Urban Safety and Disaster Mitigation Division

都市防災・安全工学部門

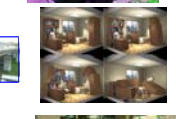
- Urban safety and disaster mitigation strategy 都市安全防災戦略
- Efficient and economic retrofitting method for masonry structure 組積造構造物の経済性を考慮した効果的補強手法の開発
- Disaster countermeasures for urban lifeline systems 都市ライフラインシステムの防災対策
- Development of integrated information system for total disaster management 総合的災害マネジメントのための防災情報システムの開発



Infrastructure Information Dynamics Division

都市基盤情報ダイナミクス部門

- Remote sensing/geographic information system リモートセンシング/地理情報システム
- Spatial data analysis 空間データ解析
- Urban warming/comprehensive environmental assessment 都市温暖化/総合環境評価
- Simulation of urban fire 都市火災シミュレーション
- Urban information system engineering 都市基盤情報システム工学
- Urban traffic management 都市交通マネジメント



International Network ネットワークの形成



- Asian Institute of Technology, Thailand
- Bangladesh Earthquake Society, Bangladesh
- Center for Public Safety Research, Tsinghua University, P.R. China
- Deptt. of Construction Engineering, National Kaohsiung First University of Science and Technology, Chinese Taipei
- Deptt. of Civil Engineering, Bangladesh University of Engineering and Technology, Bangladesh
- Global U-City Construction & Information Hub, Dept. of Civil Engineering, Han Yang University, Korea
- National Centre for Earthquake Engineering, Bangladesh
- Indian Institute of Technology Kanpur, India
- LCM Research Center, The Port and Airport Research Institute, Japan
- Nanyang Technological University College of Engineering, Singapore
- Nanyang Technological University, Protective Technology Research Center, Singapore
- National University of Singapore, Deptt. of Civil Engineering, Singapore
- School of Applied Sciences and Engineering, Monash University, Australia
- Sirdorn International Institute of Technology, Tammasat University, Thailand
- The Deptt. of Civil Engineering, Shibaura Institute of Technology, Japan



Information Gathering and Distribution 情報収集と配信



Research Committee 62 (RC62) was established to consider technologies for evaluation of aging infrastructure performance degradation. Research Committee 67 (RC67) was established to evaluate CSR activities in environment conscious society. (財)生産技術研究奨励会の特別研究会としてRC62「社会基盤施設の老朽化に伴う性能低下の評価技術に関する研究会」、RC67「環境配慮型社会へのCSR活動とその評価に関する研究会」を発足し、民間企業と検討を行っています。

