

e-ASIA Joint Research Program (e-ASIA JRP)
Joint Research Project in the field of “Disaster Risk Reduction and Management”
on the topic of “Torrential Rainfall, Associated Flood and Land Slide”

It is our great pleasure to announce the selected projects of the e-ASIA Joint Research Program (e-ASIA JRP)*1 7th Call for Proposals in the field of “Disaster Risk Reduction and Management” on the topic of “Torrential Rainfall, Associated Flood and Land Slide”.

A total of 10 proposals was submitted in response to the 7th joint call for proposals. After careful consideration based on the peer review results by the 5 funding organizations from 5 countries participating in the call, the following 2 collaborative projects were selected for support with the approval of the e-ASIA JRP Board. Support to the projects will continue for three years.

“Establishment of a Landslide Monitoring and Prediction System”

to be conducted jointly by:

Japan: Akihiko Wakai, Professor, Graduate School of Science and Technology, Gunma University

Thailand: Jessada Karnjana, Researcher, Advanced Automation and Electronics Research Unit, National Electronics and Computer Technology Center (NECTEC)

Vietnam: Hung Hoang Viet, Associate Professor, Faculty of Civil Engineering, Thuyloi University of Vietnam

This cooperative research project will develop a simple method for landslide susceptibility mapping to help reduce landslide disasters in cooperation with researchers from Japan, Thailand, and Vietnam.

“Informational system for management of flood and land slide land slide disaster areas using a distributed heterogeneous robotic team”

to be conducted jointly by:

Russia: Evgeni Magid, Professor, Higher School of Information Technology and Intelligent Systems, Kazan Federal University

Japan: Fumitoshi Matsuno, Professor, Mechanical Engineering and Science, Kyoto University

Thailand: Jackrit Suthakorn, Professor, Department of Biomedical Engineering, Mahidol University

The project develops an informational system that collects data for disaster management using heterogeneous robotic teams. We create a novel working framework and control strategies for robots' cooperative behavior in sensing, monitoring and mapping of flood and landslide disaster areas. The findings will be validated in simulations and field experiments.

On behalf of the e-ASIA JRP, we would like to offer our sincerest congratulations to the project teams, and look forward to the significant impact their results will bring to the disaster-related measures of the future.

*1 The e-ASIA Joint Research Program (e-ASIA JRP)

Through the acceleration of science and technology research exchange and collaboration in the East Asian region, the e-ASIA Joint Research Program (e-ASIA JRP) aims to strengthen research and development capabilities towards resolution of shared challenges across the region, including those associated with materials, alternative energy, agriculture, health research, disaster risk reduction and management, advanced interdisciplinary research towards innovation, and environment. As part of that objective, the e-ASIA JRP is intended to support collaborative research implemented among 3 or more of its member countries. Through the implementation of joint research among participating countries in agreed fields of research, it is the goal of the e-ASIA JRP to contribute to economic and human resource development, as well as the resolution of various challenges in the region.

e-ASIA JRP's homepage: <http://www.the-easia.org/jrp/>

*2 The list of organizations participating in the 7th joint call for proposals in the field of "Disaster Risk Reduction and Management":

- Ministry of Research, Technology and Higher Education (RISTEKDIKTI), Indonesia
URL: <https://ristekdikti.go.id/>
- Japan Science and Technology Agency (JST), Japan
URL: <http://www.jst.go.jp/EN/index.html>
- Russian Foundation for Basic Research (RFBR), Russia
URL: <http://www.rfbr.ru/rffi/eng/>
- National Science and Technology Development Agency (NSTDA), Thailand
URL: <https://www.nstda.or.th/en/index.php>
- Ministry of Science and Technology (MOST), Vietnam
URL: <https://www.most.gov.vn/en/Pages/home.aspx>

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