

Research Project Supported by Collaborative Research, Commissioned Research and Grant Donation 2017

Collaborative Research

1. Financial Provider for Research: Aqua Clue
Research Representative: Yuichi Yaguchi
Title: Development of a Remote Centralized Management Device Utilizing Image Processing Technology
Amount: N/A
2. Financial Provider for Research: International Institute Of Advanced Science and Technology (AIST)
Research Representative: Takeaki Sampe and Saji Hameed
Title: Research and Development of sophistication of wide area prediction technology for electric generation by renewable energy
Amount: N/A
3. Financial Provider for Research: Japan Aerospace Exploration Agency (JAXA)
Research Representative: Keitaro Naruse
Title: Triangulation based simultaneous localization and mapping by massively distributed robots
Amount: N/A

Projects

4. Financial Provider for Research: Kitashiba Electric Co. Ltd.
Research Representative: Qiangfu Zhao
Title: Research about automation of inspection process in the motor manufacturing facility
Amount: ¥ 990,000

5. Financial Provider for Research: Socionext Inc.
Research Representative: Hiroshi Saito
Title: Research on the High-level Synthesis Technique for Asynchronous Circuits
Amount: ¥ 1,000,000

6. Financial Provider for Research: EWM Japan, Ltd.
Research Representative: Jiro Iwase (Hideyuki Fukuhara)
Title: Development for distributed computer system using nano grid photovoltaic solar energy
Amount: ¥ 1,000,000

7. Financial Provider for Research: SIMPLEX QUANTUM Inc.
Research Representative: Wenxi Chen
Title: Development of HRV frequency range parameter calculation (LF/HF)
Amount: ¥ 3,014,000

8. Financial Provider for Research: Toolmart Corporation
Research Representative: Keitaro Naruse
Title: Preliminary analysis for automatic detection of potential incidents from video taken from forklift
Amount: ¥ 110,000

9. Financial Provider for Research: Ai-NET Corporation
Research Representative: Lei Jing
Title: R & D of Mimamori Wrist Band for the Elders
Amount: ¥ 495,000

10. Financial Provider for Research: Institute of Space and Astronautical Science (ISAS), JAXA

Research Representative: Hirohide Demura

Title: Research of “obstruction detection method for evaluation of landing point in lunar and planetary exploration” and “tools for analysis and operation of irregularly shaped small bodies”

Amount: ¥ 1,282,832

11. Financial Provider for Research: East Japan Accounting Center Co.,Ltd.
Research Representative: Yuichi Yaguchi
Title: A Technology Survey to Establish Secure Drone Flight and Security Evaluation of a Feasible Demonstration
Amount: ¥ 1,346,400
12. Financial Provider for Research: Toolmart Corporation
Research Representative: Keitaro Naruse
Title: Analysis for automatic detection of potential incidents from video taken from forklift
Amount: ¥ 550,000
13. Financial Provider for Research: Mitsubishi Shindo Co. Ltd.
Research Representative: Qiangfu Zhao
Title: Automatic defect detection based on surface images of copper plate
Amount: ¥ 300,000
14. Financial Provider for Research: Alpine Electronics, Inc.
Research Representative: Qiangfu Zhao
Title: Situation awareness of nearby environment for a personal vehicle
Amount: ¥ 700,000
15. Financial Provider for Research: Mitsubishi Pencil Co., Ltd.
Research Representative: Lei Jing
Title: Research and Development on an E-Pen to Digitalize the Handwriting
Amount: ¥ 1,320,000
16. Financial Provider for Research: Ai-NET Corporation
Research Representative: Lei Jing
Title: R & D of Mimamori Wrist Band for the Elders (2)
Amount: ¥ 1,485,000

Projects

Commissioned Research

1. Financial Provider for Research: Japan Science and Technology Agency (JST)
Research Representative: Keitaro Naruse
Title: Enhancement of disaster resilient functions to prevent and reduce damages
Amount: ¥ 2,785,300
2. Financial Provider for Research: Japan Science and Technology Agency (JST)
Research Representative: Junbo Wang
Title: Dynamic Evolution of Smart-Phone Based Emergency Communications Network
Amount: ¥ 10,660,000
3. Financial Provider for Research: Fukushima Prefecture
Research Representative: Keitaro Naruse
Title: Development of farming support robot (weeding robot system for rice fields)
Amount: ¥ 9,930,000
4. Financial Provider for Research: Ministry of Internal Affairs and Communications
Research Representative: Toshiaki Miyazaki
Title: Tracking of Living Activity and Health Condition in Smart Home using Radio reflection and Big data
Amount: ¥ 10,855,000
5. Financial Provider for Research: Kikuchi Seisakusho Co., Ltd.
Research Representative: Yuichi Yaguchi
Title: “Data processing and collecting sample of acquirable 3D topography data using 3D mapping technology” and “Examination for a fall accident simulator development”
Amount: ¥ 7,000,000

6. Financial Provider for Research: Japan Society for the Promotion of Science (JSPS)
 Research Representative: Ryuhei Yamada
 Title: Lunar impact flash observation by ground stations among two nations and an application of the results to future lunar seismic explorations
 Amount: ¥ 960,000

7. Financial Provider for Research: Japan ADvanced system co.,ltd
 Research Representative: Keitaro Naruse
 Title: Support of prototype development of advanced safety system for industrial workers
 Amount: ¥ 500,000

8. Financial Provider for Research: FUJITSU LABORATORIES LTD.
 Research Representative: Akihito Nakamura
 Title: Study of Personal Data Stores API
 Amount: ¥ 1,000,000

9. Financial Provider for Research: FSK Corporation
 Research Representative: Makoto Yashiro
 Title: General wheel type / Crawler type Robot Model and Simulation Contents Construction, Simulation Accuracy verification
 Amount: ¥ 14,997,150

10. Financial Provider for Research: GClue, Inc.
 Research Representative: Yuichi Okuyama
 Title: Evaluation of an Extension Board Development for Embedded GPU
 Amount: ¥ 495,000

Grant Donation

1. Donation Provider: Telecommunications Advancement Foundation
 Research Representative: Anh T. Pham
 Title: Hybrid Architecture and Cross-Layer Design for Free-space Optics/Millimeter-Wave Front/Backhaul of the Next-Generation Mobile Networks
 Amount: ¥ 550,000

Projects

2. Donation Provider: Foundation for Research of Arteriosclerosis
Research Representative: Wenxi Chen
Title: Research for statistical analysis of blood pressure data and Blood pressure measurement at household
Amount: ¥ 1,000,000

3. Donation Provider: Nakajima Foundation
Research Representative: Yoichi Tomioka
Title: Establishment of Fast Camera Identification Method for videos captured by smartphones
Amount: ¥ 1,100,000

4. Donation Provider: JAL Information Technology Co., Ltd.
Research Representative: The University of Aizu
Amount: ¥ 500,000

5. Donation Provider: JAL Information Technology Co., Ltd.
Research Representative: The University of Aizu
Amount: ¥ 500,000

6. Donation Provider: Aiki Co., Ltd. / Yakuju Co., Ltd.
Research Representative: Wenxi Chen
Title: To encourage a research of the biomedical information measurement technique
Amount: ¥ 1,000,000

7. Donation Provider: Aizu-Wakamatsu City
Research Representative: Student Affairs Division and The University of Aizu Revitalization Center
Amount: ¥ 10,000,000