

Projects

Research Project Supported by Competitive Research Funding 2015

General Category

1. Principal Investigator: Rockell Kim Forrester
Title: Interactive Composition to Support Japanese Learners' L2 Development
Amount: ¥ 100,000
2. Principal Investigator: Jung-pil Shin
Title: Human Computer Interaction on Pen Computing
Amount: ¥ 520,000
3. Principal Investigator: Debopriyo Roy
Title: Physical LEGO Design for Robots and 3D Printing in Creative Factory Contexts for English Language Learning
Amount: ¥ 100,000
4. Principal Investigator: Kenta Ofuji
Title: Statistical analysis of linguistic characteristics in evacuation calls
Amount: ¥ 100,000
5. Principal Investigator: Junji Kitamichi
Title: Formal approach for system fault analysis of embedded systems
Amount: ¥ 349,000
6. Principal Investigator: Mohamed Hamada
Title: Learning Style Index :a Phase for Smart Multimedia Learning Framework
Amount: ¥ 169,000
7. Principal Investigator: Yan Pei
Title: Linear and generalized principal component discriminant analysis: study on establishment analytical framework fundamental of data projection approaches
Amount: ¥ 265,000

8. Principal Investigator: Hiroshi Saito
 Title: Development of System-level Design Environment for FPGA-based Systems
 Amount: ¥ 865,000

9. Principal Investigator: Ben A. Abderazek
 Title: Photonic 3D-Network-on-Chip for High-throughput Many-core System-on-Chip
 Amount: ¥ 1,305,000

10. Principal Investigator: Neil Y. Yen
 Title: Human-centric Decision-making Support for Natural Disaster Recovery Support
 Amount: ¥ 385,000

11. Principal Investigator: Shigeyuki Aoki
 Title: Revision of Toulmin's Model of Argument through the construction of argument database
 Amount: ¥ 213,000

12. Principal Investigator: Ryoji Sawa
 Title: Stochastic Equilibrium Selection with Behavioral Players
 Amount: ¥ 684,000

13. Principal Investigator: Wenxi Chen
 Title: Development of an Automatic Monitoring System for Bathtub Electrocardiogram
 Amount: ¥ 827,000

14. Principal Investigator: Lei Jing
 Title: R & D on wearable engine design and basic functional modules
 Amount: ¥ 494,000

15. Principal Investigator: Moonyoung Park
 Title: Enhancing Mobile-Assisted Language Learning (MALL) through Usability Testing and Curriculum Innovation
 Amount: ¥ 116,000

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16. Principal Investigator: Anh T. Pham
Title: Integrated FSO/PON for Next-Generation Access Networks: Cross-Layer Designs and Enabling Technologies
Amount: ¥ 1,012,000
17. Principal Investigator: Song Guo
Title: Robot-assisted deployment and maintenance of wireless sensor networks
Amount: ¥ 1,373,000
18. Principal Investigator: Hitoshi Oi
Title: Power-Efficient System Design with Multi-core Processors
Amount: ¥ 100,000
19. Principal Investigator: Yoichi Tomioka
Title: Power-Efficient Human Detection and Privacy Protection Hardware For Drones
Amount: ¥ 938,000
20. Principal Investigator: Younghyon Heo
Title: Developing a corpus of useful English vocabulary and sentence structures for Japanese computer science majors learning academic writing
Amount: ¥ 376,000
21. Principal Investigator: Julian Villegas
Title: My city-Your city. A benchmarking platform for environment indicators
Amount: ¥ 228,000
22. Principal Investigator: Shigeo Takahashi
Title: Visual Analytics of Multivariate Data via Mathematical Fibers: Application to Spatiotemporal Topographic Analysis of Radiation Level
Amount: ¥ 1,210,000
23. Principal Investigator: Takako Yasuta
Title: Comics for L2 Paragraph Writing: How visuals can help EFL learners to understand paragraph structures
Amount: ¥ 132,000

24. Principal Investigator: Nobuyoshi Asai
 Title: A robust Server construction of Hyper English Dictionary with Etymology
 Amount: ¥ 100,000

25. Principal Investigator: Peng Li
 Title: Prolong Usage Time of Smartphones in Disaster Environment
 Amount: ¥ 948,000

26. Principal Investigator: Irina Khmyrova
 Title: Modeling and analytical study of light-emitting diodes with designed electrode(continued)
 Amount: ¥ 404,000

27. Principal Investigator: Saji N. Hameed
 Title: Applying computer and computational sciences to describe and analyze real-world environmental issues
 Amount: ¥ 820,000

28. Principal Investigator: Cong Thang Truong
 Title: Quality-enabled adaptation for video streaming over mobile networks
 Amount: ¥ 712,000

29. Principal Investigator: Akihito Nakamura
 Title: Knowledge-Based Semi-Automation of Computer Security Management
 Amount: ¥ 554,000

30. Principal Investigator: Maxim Ryzhii
 Title: Study of nonlinear cardiac electrical dynamics with heterogeneous oscillator model
 Amount: ¥ 172,000

31. Principal Investigator: Ken Nakazawa
 Title: Physical education program for SGU
 Amount: ¥ 141,000

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32. Principal Investigator: Emiko Kaneko
Title: Enhancing Unique Features of UoA Short-term Study-abroad Programs
Amount: ¥ 785,000
33. Principal Investigator: Vitaly Klyuev
Title: Emotion Detection in the Micro blogosphere
Amount: ¥ 100,000
34. Principal Investigator: Yukihide Kohira
Title: Power Consumption Reduction for General-Synchronous Circuits in FPGA
Amount: ¥ 694,000
35. Principal Investigator: Tatsuki Kawaguchi
Title: Project Based Learning as a Pedagogical Strategy for Developing Skills in Glocal Collaboration in Aizu and World
Amount: ¥ 384,000
36. Principal Investigator: Ian Wilson
Title: Differences between Japanese and English underlying articulatory setting
Amount: ¥ 335,000
37. Principal Investigator: Yuichi Yaguchi
Title: Flip Education Support System using Moodle
Amount: ¥ 475,000
38. Principal Investigator: Yutaka Watanobe
Title: Integration of Software Components based on Service Oriented Architecture for Research and Education
Amount: ¥ 1,029,000
39. Principal Investigator: John Brine
Title: A System for Awarding Points in the Digital Badges English-village
Amount: ¥ 226,000

Mid-Term Category

1. Principal Investigator: Incheon Paik
Title: Workflow Generation for Automating Process of Big Data Analytics using Service Composition
Amount: ¥ 1,132,000
2. Principal Investigator: Igor Lubashevskiy
Title: Emergent Mechanism of Categorization by Humans under Uncertainty: Experiments and Modeling of Psychophysiological Processes
Amount: ¥ 700,000
3. Principal Investigator: Subhash Bhalla
Title: Relational Database Query Languages for Large Scale Medical Information Repositories over Cloud-based Databases
Amount: ¥ 559,000

UBIC Category

1. Principal Investigator: Qiangfu Zhao
Title: Daily activity recognition based on a sparse infrared sensor array
Amount: ¥ 1,252,000
2. Principal Investigator: Toshiaki Miyazaki
Demand Addressable Sensor Network (3rd year)
Amount: ¥ 1,724,000
3. Principal Investigator: Michael Cohen
“ Mobile Ambient, “practically panoramic” whole-body entertainment
Amount: ¥ 754,000

CAIST Category

1. Principal Investigator: Hirohide Demura
Title: Development of fundamental technologies for lunar and planetary ex-

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Amount: ¥ 1,906,000

2. Principal Investigator: Kyoko Okudaira
Title: Development of initial analysis system for JAXA Tanpopo mission aerogel samples retrieved from the International Space Station
Amount: ¥ 523,000
3. Principal Investigator: Xin Zhu
Title: Study on sudden cardiac death: mechanism, prediction, monitoring and therapy
Amount: ¥ 2,329,000
4. Principal Investigator: Keitaro Naruse
Title: Development of RT middleware based almost unmanned robot weeding system in large-scale rice fields
Amount: ¥ 2,344,000
5. Principal Investigator: Takafumi Hayashi
Title: Could supporting Cyber Physical System Integration using Message Networking
Amount: ¥ 1,520,000
6. Principal Investigator: Nohito Nakasato
Title: Co-design of parallel architectures and parallel applications
Amount: ¥ 2,265,000