

The 1st US-Japan Workshop on Collaborative Global Research on Applying Information Technology

June 5-6, 2017, Atlanta, GA, USA (co-located with IEEE ICDCS'17)

Workshop Objective

This workshop will bring together researchers from around the world to discuss experiences, challenges, and opportunities in transnational and international collaborative research on information technology (IT) and IT-supported applications, with focus on active collaborations between the United States (U.S.) and Japan. The workshop will provide opportunities for participants to interact directly and promote collaborative research activities. The collaboration is expected to achieve scientific knowledge that would be difficult to obtain individually.

Workshop attendance will be by invitation only, following response to this call as outlined below. Prospective attendees are expected to be investigators on funded research projects, and should submit papers or whitepaper for consideration by the program committee. Workshop organizers are requesting funding from NSF and JST to support partially the travel costs and registration fees of invited attendees from the U.S. and Japan. Principal Investigators of projects in relevant NSF and JST programs are strongly encouraged to apply. Additionally, early career researchers and underrepresented minorities are encouraged to apply.

Priority Research Topics

Topics of interest for collaboration include, but are not limited to:

- *Big Data Fundamental Technologies and Applications*: novel techniques, methodologies, and technologies in computer science, statistics, computational science, and mathematics, together with innovative applications in domain science, which may include, for example, disaster management.
- *Smart and Connected Communities (SCC)*: strongly interdisciplinary, integrative research that will improve understanding of smart and connected communities and lead to discoveries that enable sustainable change to enhance community functioning.
- *Cyber-Physical Systems (CPS) and Internet of Things (IoT)*: system science needed to engineer complex, reliable cyber-physical systems that people can use, interact with, and depend upon, namely the cross-cutting fundamental scientific and engineering principles that underpin the integration of cyber and physical elements across all application sectors.
- *Artificial Intelligence and Machine Learning*: research enabling computational understanding and modeling of intelligence in complex, realistic contexts, or more generally, processing and functionality to address data of unprecedented scale, complexity, heterogeneity, etc.

Papers and Submissions

Papers and whitepapers must be written in English, and they must be in PDF or Word format. The complete manuscript should be no more than 4 pages following IEEE conference proceedings style and guidelines. The following information must be included:

- (1) paper title, full name, affiliation of the author(s)
- (2) contact author's email address
- (3) abstract (up to 150 words).

The submission should fit into one of the following types (declared in the title):

- Type 1: Ongoing collaborations: joint projects, collaborative work, continued interactions, preferably with demonstrated success (e.g., joint papers or grants); should include co-authors from both sides, and financial support for up to one co-author from each side may be available.
- Type 2: Promising or potential collaborations: occasional interactions; “blue sky” ideas allowed; must have concrete chances of successful future collaboration; may be submitted by author(s) from just one country; only the main author will be considered for support.

The submissions will be considered for the following categories:

- Refereed papers: accepted for inclusion in Workshop Proceedings of ICDCS (as a regular workshop paper), and invitation to attend workshop with NSF/JST partial support.
- Whitepapers: Invitation to attend workshop with NSF/JST partial support (whitepapers will be accessible through open repositories such as cps-vo.org).

The submissions will be evaluated by a program committee and workshop organizers with collaborative research experience and expertise in the priority research areas. Both Type 1 and Type 2 submissions will be evaluated with respect to their scientific merit and research potential, as well as their collaboration experience (Type 1 only). The submissions received by the first deadline will be considered for both the Workshop Proceedings (published as part of the ICDCS Workshop Proceedings) and invitation to attend the workshop. Papers accepted for the Workshop Proceedings will have reviews and the authors are expected to revise the papers accordingly before submitting their camera-ready (conforming to the IEEE Proceedings Format) for publication. Submissions that did not meet the criteria for Workshop Proceedings will be considered as whitepapers.

The submissions received by the second deadline will be considered as whitepapers for invitation to attend the workshop. The program committee will evaluate both Type 1 and Type 2 whitepapers for their scientific merit and research potential, as well as their collaboration experience (Type 1 only).

Important dates:

- March 25, 2017 (Early Submission Deadline for refereed papers): Submission received by this date will be reviewed for consideration as refereed paper (inclusion in ICDCS Workshop Proceedings and invitation to attend workshop) and as whitepaper (invitation to attend workshop only).
- March 31, 2017: Notification of Early Submission acceptance as refereed paper or whitepaper, and invitation to attend workshop.
- April 3, 2017: Camera-ready deadline for accepted refereed papers for Workshop Proceedings.
- April 28, 2017 (Final Submission Deadline for whitepapers only): Submissions received by this date will be considered for whitepaper and invitation to participate in the Workshop (not included in ICDCS Workshop Proceedings and informal review only).
- May 5, 2017: Notification of Final Submission acceptance as white paper and invitation to attend workshop (submissions received between March 26 and April 28).

Financial Support:

Funding support in the form of travel expenses and partial workshop registration for invited participants may be available. All accepted submissions will be considered by the Workshop Organizers for funding, but actual financial support is contingent upon availability of funds.

Financial support for US and Japanese researchers will be considered independently, and support may be available in both cases. Please visit this page for updates regarding the availability of financial support.

The workshop organizers will make the invitations.

Workshop Organizers

Calton Pu (Georgia Tech – USA)

Masaru Kitsuregawa (NII – Japan)

Program Committee: TBD