

Revised Call for Whitepapers: The 1st US-Japan Workshop Enabling Global Collaborations in Big Data Research

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 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.

Whitepapers and Submissions

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. 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 whitepaper submissions will be considered for the following categories:

- Invitation to attend workshop with NSF/JST partial support.
- Depending on space availability, a limited number of additional invitations may be extended to potential attendees without financial support.

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). Accepted whitepapers will be accessible through open repositories such as CPS-VO.ORG.

Important dates:

- April 28, 2017: Final submission deadline for whitepapers.
- May 5, 2017: Notification of whitepaper acceptance and invitation to attend workshop.

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 with the assistance of program committee.

Workshop Organizers

Calton Pu (Georgia Tech – USA)

Masaru Kitsuregawa (NII – Japan)

Program Committee

Jose Fortes (University of Florida)

Etsuya Shibayama (University of Tokyo)

Qingyang Wang (Louisiana State University)

Additional members TBD