The 2nd IEEE International Workshop on Big Data and IoT Security in Smart Computing

June 18-20, 2018 – Taormina, Sicily, Italy

http://www.yama.info.waseda.ac.jp/bits2018/

CALL FOR PAPERS

Smart computing aims at improving quality of life and experience in modern society represents the next wave of computing. Key technologies contributing to the realization of smart connected communities include sensing, IoTs, mobile and pervasive computing, cyber-physical-social systems, big data, machine learning, data analytics, social and cognitive computing. Smart computing help solve a wide variety of societal challenges related to transportation, energy, healthcare, finance, disaster management, and so on.

At the core of all such systems and applications, critical issues are security privacy, reliability, resiliency, and robustness. Indeed to boost the development of big data applications in smart computing, data security and data traceability as well as privacy are extremely important. For example, data security such as secure computation with fully homomorphic encryption and data traceability with both proof of storage and attribute-based encryption become indispensable.

After successful 1st IEEE International Workshop on Big Data and IoT Security in Smart Computing (IEEE BITS2017) in Hong Kong, the 2nd workshop, IEEE BITS2018, will be held focussing on theories and implementations on secure computing and secure data management in Cloud/IoT environment. BITS is a full-day workshop that is going to be organized in conjunction in conjunction with The 4th IEEE International Conference on Smart Computing (SMARTCOMP2018) on 18-20 June, 2018.

The topics to be addressed at BITS2018 will include, but not limited to, theoretical or practical aspects of big data and IoT security and privacy in smart computing and cyber-physical systems. Papers describing experience on real prototype implementations are also welcome. Submissions should be targeted to one of the following sub-topics:

- Anonymity for big data
- Cryptology for big data (Fully Homomorphic Encryption, Proof of Storage, Attribute-based Encryption, etc.)
- Computer architecture to speed-up secure computation
- Cloud security (Security and privacy policies)
- Data traceability for big data
- Distributed systems security
- Government funded projects in the area of data security and data traceability
- Legal study for handling big data

- Privacy risk assessment

- Secure computation for big data

- Secure information flow

- Security management

- Trust, security, privacy, and data provenance issues in Smart Computing

- Security and privacy issues in various smart computing applications such as transportation, energy, environmental, smart city, healthcare, and social media

SUBMISSION GUIDELINES

Paper submissions should be no longer than 6 pages (including references) and formatted according to the IEEE conference template. Papers must be submitted electronically as PDF files through EasyChair by selecting **BITS2018** track.
All submitted papers will be subject to peer reviews by Technical Program Committee members and other experts in the field. All presented papers will be published in the SmartComp2018 conference proceedings and submitted to the *IEEE Xplore Digital Library*. All accepted papers will be *EI indexed*.

IEEE conference template
  http://www.ieee.org/conferences_events/conferences/publishing/templates.html
EasyChair (please select BITS2018 track)
  https://easychair.org/conferences/?conf=smartcomp2018

ORGANIZING COMMITTEE

General Co-Chairs

- Sajal K. Das, Missouri Univ. of Science and Technology, USA

- Hayato Yamana, Waseda University, Japan

Technical Program Co-Chairs

- Mauro Conti, University of Padova, Italy
- Atsuko Miyaji, Japan Advanced Inst. of Science and Technology
- Jun Sakuma, University of Tsukuba, Japan

Technical Program Committee (in progress)

- Moreno Ambrosin, Intel Labs, USA
- Claudio A. Ardagna , University of Milan
- Seiko Arita, Institute of Information Security, Japan
- Elisa Bertino, Purdue University, USA

- Alberto Compagno, Cisco Systems, France
- Ernesto Damiani, University of Milan, Italy
- Sara Foresti, University of Milan, Italy
- Sushil Jajodia, George Mason University, USA
- Wei Jiang, Missouri University of Science and Technology, USA
- Masato Oguchi, Ochanomizu University, Japan
- Kana Shimizu, Waseda University, Japan
- Angelo Spognardi, Sapienza Univ. of Rome, Italy
- Julinda Stefa, Sapienza Univ. of Rome, Italy
- Saneyasu Yamaguchi, Kogakuin University, Japan
- Chia-Mu Yu, National Chung Hsing University, Taiwan

IMPORTANT DATES

Paper Submission Deadline:

Friday, March 16, 2018

Accepted Notification:

Friday, March 30, 2018

Camera Ready Deadline:

Saturday, April 21, 2018

Workshop Date:

During SMARTCOMP2018