Call for Papers: Conference on Internet of Things Design and Implementation (IoTDI 2020)

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Call for Papers

5th ACM/IEEE Conference on Internet of Things Design and Implementation (IoTDI 2020)

Sydney, Australia

April 21-24, 2020

https://conferences.computer.org/iotDI/2020/cfp.html

The ICCPS 2020 Conference will be held as a part of CPSWeek (CPS-IoT 2020).

Important Dates

- Abstract Submission Deadline: October 16th, 2019
- Paper Submission Deadline: October 23rd, 2019
- Acceptance Notification: January 15th, 2019

Overview

The organizers of IoTDI 2020 are pleased to announce the organization of IoTDI 2020, and are soliciting high-quality papers for the conference. The ACM/IEEE International Conference on Internet of Things Design and Implementation (IoTDI) is a premier venue on IoT. In 2020, IoTDI will be held for the fifth time, and will be part of CPS-IoT WEEK 2020 being organized in Sydney.

A confluence of technological advances marks the advent of a new era. World data volume is growing at an unprecedented pace, much of it from embedded devices. Smart cities are expected to grow, fed by millions of data points from multitudes of human and physical sources. Cyber-attacks grow more nefarious, bringing down physical systems. Social networks are becoming ubiquitous, offering information on physical things. The separation between cyber, physical, and social systems is blurring. Collectively, these developments lead to the emergence of a new field, where the networking and physical realms meet. It is
the field of the Internet of Things (IoT). This conference is an interdisciplinary forum to discuss challenges, technologies, and emerging directions in system design and implementation that pertain to IoT. This conference invites researchers and practitioners from academia, industry and government, and accepts original, previously unpublished work on a range of topics related to IoT.

Topics

Topics of interest include, but are not limited to:

- Analytic foundations and theory of IoT
- Reliability, security, timeliness, and robustness in IoT systems
- Novel protocols and network abstractions
- Data streaming architectures and machine learning analytics for IoT
- IoT-motivated cyber-physical and Industrial IoT (IIoT) systems
- Novel quality requirements and their enforcement mechanisms
- Cloud back-ends and resource management for IoT applications
- Edge and fog computing
- Personal, wearable, and other embedded networked front-ends
- Social computing and human-in-the-loop issues
- Applications domains (e.g., smart cities, smart health, smart buildings, smart transportation)
- Deployment experiences, case studies & lessons learned
- Evaluation and testbeds
- AI/ML for IoT & Embedded Systems
- Energy/Power Management & Harvesting for IoT Platforms

Accepted papers of particular merit will be invited to submit an extended version to the ACM Transactions on the Internet of Things (TIOT). For papers reporting results based on experiments with human subjects, appropriate ethics approvals should be demonstrated as part of the submission.

Submission-specific details (e.g., page lengths, formats, submission URL) will be available via the IoTDI Website shortly.

? Call for Papers: IEEE Design & Test Special Issue on Education for Cyber-Physical Systems Call for Papers: IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS 2020) ?

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