



Internet of Things Symposium2010



The 1st IEEE/ACM Internet of Things Symposium
IOTS2010



<http://www.cpschina.org/IOTS/>

In conjunction with GreenCom 2010
Hangzhou, China, 31 October - 1 November,



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Program Committee

See the workshop website:
<http://www.cpschina.org/IOTS/>

Important Dates

Submission Deadline:

~~Jun. 30, 2010~~

Jul. 15, 2010

Authors Notification:

Aug. 10, 2010

Final Manuscript Due:

Aug. 30, 2010

Contact

See IOTS 2010 website:
<http://www.cpschina.org/IOTS/>
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Overview

The Internet of Things (IoT) is a network of Internet-enabled objects, together with web services that interact with these objects. IoT is growing momentum in terms of the underlying technology as well as the adoption by corporations, universities and across many industries. IoT aims at increasing the ubiquity of the Internet by integrating every object for interaction via embedded systems, which leads to the highly distributed network of devices communicating with human beings as well as other devices.

The widespread adoption of the Internet of Things will take time, but the process is accelerating thanks to improvements in underlying technologies. Advances in wireless networking technologies and the standardization of communication protocols make it possible to collect data from sensors almost anywhere at any time. Smaller silicon chips for this purpose are gaining new capabilities. Significant increase in storage and computing power can also be available via cloud computing. However, a large number of challenges remain. With the increase in heterogeneity, it has become very difficult to ensure interactions with devices on a unified protocol. The requirements of Internet for intelligent interaction with the environment led to the emergence of wireless sensor networks connected to the Internet. There exists a need for those networks to produce their information in an interpretable form and to reduce the complexity of accessing sensor services.

Symposium Outlines

The focus of this symposium is on bringing together relevant researchers to explore internet of things technologies and applications of sensor network, RFID and smart phones. The scope of this symposium includes, but not limited to, the following areas:

- IoT connecting objects technologies: sensors, RFID, smartphone
- IoT network architectures
- IoT emerging applications
- IoT security and privacy
- IoT routing
- IoT naming and addressing
- IoT energy-efficient computing and communications
- IoT data fusion
- IoT cross-layer optimization
- IoT communication protocols
- IoT heterogeneous network integration: WiFi, WiMax, 3G, 4G, ZigBee

Submission Details

We solicit original and unpublished work not currently under review by any other journal/magazine/conference. All papers will be reviewed by the IOTS Program Committee for significance, originality, accuracy, and clarity. For detailed submission instructions, please visit the symposium website: <http://cpschina.org/IOTS/>. Papers should be a maximum of 15 pages in PDF file. Paper formatting instructions and templates (IEEE "8.5x11" two-column format) can be found at: http://cpschina.org/IOTS/IEEECS_IOTS_8.5x11x2.rar and http://cpschina.org/IOTS/IEEECS_IOTS_LaTeX_Letter_2Col.rar. Each submission should be regarded as an undertaking that, if the paper is accepted, at least one of the authors must attend the workshop to present the work.

Please submit your paper here:
<http://www.easychair.org/conferences/?conf=iots2010>

Paper Publications

Accepted and presented papers will be included in the GreenCom 2010 workshop proceedings published by IEEE Computer Society Press (placed in IEEE Xplore) and indexed by EI Compendex. Extended versions of selected best papers will be considered for publication in special issues of SCI-index international journals (TBA).