

2019 TRON Symposium (TRONSHOW)

Call for Papers

DATE 11th-12th December 2019

(TRONSHOW EXHIBITION 11th-13th)

VENUE Tokyo Midtown, Akasaka, Minato, Tokyo



Organized and Sponsored by

TRON Forum <http://www.tron.org/>
(T-Engine Forum that has supported TRON Project has changed its name to TRON Forum as of 1st April, 2015.)

collaboration Hub for University and Business (cHUB), Faculty of Information Networking for Innovation And Design (INIAD), TOYO University
<https://www.iniad.org/en/>

Institute of Infrastructure Application of Ubiquitous Computing (IAUC), Interfaculty Initiative in Information Studies, The University of Tokyo
<http://www.ubinsoc.org/>

Technical Co-sponsorship:
IEEE Consumer Electronic Society (CES)
<http://cesoc.ieee.org/>

Organization

TRON Symposium Technical Program Committee

Chair Ken Sakamura
Chair of TRON Forum
Dean of Faculty of Information Networking for Innovation and Design (INIAD), Toyo University

Symposium Publication

Chair Toshihisa Muto
Personal Media Corporation

Symposium Publicity

Chair Chiaki Ishikawa
YRP Ubiquitous Networking Laboratory

Important Dates:

Oct. 18:
Final paper submission deadline

Nov. 13:
Notification of acceptance

Nov. 27:
Final version deadline (for accepted papers)
Author's registration deadline

Dec. 10: Registration closes

We are pleased to announce 2019 TRON Symposium, the 35th TRON Project Symposium to be held on 11th-12th of December 2019, in Tokyo, Japan. The Symposium, with technical co-sponsorship of IEEE Consumer Electronics Society, will feature presentation sessions of papers, panel discussions, tutorial sessions and an accompanying exhibition, TRONSHOW (11th-13th December.)

Submission of Papers

Accepted and presented full papers to the FULL track will be submitted to IEEE for inclusion in IEEE Xplore® online publication database. Prospective authors in the embedded systems industry and the emerging field of the IoT are encouraged to submit full papers or extended abstract for presentation. Only original papers that have not been published or submitted for publication elsewhere will be considered.

Papers presented at the Symposium should be full papers or extended abstract, in English of maximum 9 pages including figures and pictures, using the supplied template. The minimum length is 2 pages for an extended abstract from busy practitioners. See "Topics of Interest" at the end of this call for relevant topics that are of interest to the Symposium per se, and the visitors to the accompanying exhibition.

We are using EDAS now!

Abstract

Those wishing to submit papers or extended abstract should first register your paper with an abstract (up to approximately 300 words) into EDAS with the provisional title: <https://edas.info/N26575>

This step must be finished BEFORE the submission of the final draft. But please see the symposium web page for the importance of the screening of topics in advance to save the time of authors and reviewers.

Full Paper / Extended Abstract

The authors then should submit the final draft by 18th October to EDAS in Portable Document Format (PDF). Notification of acceptance for presentation will be sent by 13th November. For papers that are accepted for presentation, the final version is to be submitted by 27th November to IEEE PDF eXpress plus website. An author must be at the TRON Symposium to present the paper. (See the author's guideline posted at the Symposium website and web pages for details).

Topics of Interest

Broadly speaking there are two categories. One is embedded systems and the other is the IoT (or Ubiquitous Computing) application and services. The boundary of these categories have become blurred thanks to the real-world services applications of the IoT. Topics of the symposium include the following, but not limited to: (continued on the next page.)

Topics of Interest

Embedded Systems:

Home electronic appliances
 Smart Houses, Smart Buildings, and Smart Cities
 Intelligent Mobility (automotive, construction machinery)
 Power-aware computing and energy harvesting
 Smart-grid application
 Intra-system and inter-systems electromagnetic compatibility
 Human Machine Interface for embedded systems
 Security of embedded devices
 Functional safety, fault tolerance
 Real-time OS development and application
 Embedded systems software and optimization
 Hardware/Software co-design of embedded systems

Embedded systems design automation
 ASICs and FPGAs
 System/Network-on-chip
 The use and development of RTOS and the middleware
 Comparative study of RTOSs including TRON RTOS Family
 Theory and practice of embedded systems education/training

IoT

USN (Ubiquitous Sensor Network)
 M2M communications
 Cyber Physical Systems (CPS)
 Computer-Augmented Environment
 IoT architectures
 IoT infrastructures
 IoT applications and IoT services
 IoT architectures and application frameworks (uID architecture, SmartM3, etc.)

Implementation of servers for uID Architecture (1.0, 2.0), ucode, etc.
 RFID tags, ucode tags, etc.
 Location-based Information Systems
 Theory and practice of building real-world IoT application systems
 Cloud computing
 Open Data, Big Data processing for the IoT
 IoT security
 Aggregate Computing

General

Assistive technology (such as Enableware)
 Impact of technology on society
 Security and privacy
 Standardization efforts, and governance of the IoT

Technical Program Committee: tpc@tron.org

Chair: Dr. Ken Sakamura,

Dean of Faculty of Information Networking for Innovation and Design (INIAD), Toyo University / Chair of TRON Forum

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 VTT Technical Research Centre of Finland

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About TRON Project and TRON Symposium:

TRON Project was established in 1984. It aims to build the open architecture of advanced embedded systems. It has developed very popular TRON real-time OS (RTOS) family: ITRON specification, and T-Kernel, for example. TRON Project's original goal included the vision of "Computer Everywhere" is basically the same as ubiquitous computing or the IoT (the Internet of Things). See <http://www.tron.org/> for the detailed background on TRON Project.

To disseminate the result of the project and foster communication of interested parties, TRON Project has held the annual TRON Symposium since 1986. TRON Symposium is the place to discuss the applications and services of the IoT in the future such as the home electronic appliances, homes, buildings and cities of the future, and to discuss the nuts and bolts of embedded systems such as RTOS kernel, the implementation issues such as interaction of the IoT paradigm and Cloud. We welcome discussions of the impact of technology on society.