



Workshop on Fog Computing and the IoT

April 15, 2019, Montreal, Canada
Co-located with CPS-IoT Week

Organizing committee

Co-chairs:

Prof. Paul Pop, Technical Univ. of Denmark
Prof. Karl-Erik Årzén, Lund University, Sweden

Website chair: Dr. Bahram Zarrin, TU Denmark

Publicity chair: Prof. Stefan Schulte, TU Wien, A

Liaison to Fog World Congress:

Prof. Nicola Dragoni, TU Denmark

Important dates

Jan. 15, 2019: paper submission (firm)

Feb. 11, 2019: notifications

Feb. 20, 2019: camera ready

Apr. 15, 2019: workshop day

Technical Program Committee

Prof. Tarek Abdelzaher, Univ. of Illinois at Urbana-Champaign, US

Dr. Joe M. Butler, Intel Labs, IE

Dr. Silviu S. Craciunas, TTTech, AT

Prof. Tommaso Cucinotta, Sant'Anna School of Advanced Studies, IT

Prof. Nicola Dragoni, TU Denmark, DK

Dr. Johan Eker, Ericsson Research, SE

Prof. Alessandro Papadopoulos, Mälardalen U., SE

Prof. Paul Pop, TU Denmark, DK

Prof. Jinpeng Wei, UNC Charlotte, US

Prof. Stefan Schulte, TU Wien, AT

Dr. Wilfried Steiner, TTTech Computertechnik, AT

Prof. Yang Yang, ShanghaiTech University, CN

Dr. Tao Zhang, Huawei, US

Prof. Karl-Erik Årzén, Lund University, SE

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When Cyber-Physical Systems (CPS) become interconnected with each other and with the internet, they form the Internet of Things (IoT), forming “the infrastructure of the information society.” Fog Computing is a “system-level architecture that distributes resources and services of computing, storage, control and net-working anywhere along the continuum from Cloud to Things” and is about to tremendously impact the IoT. The objective of this workshop is to be a forum for presenting and discussing recent developments and trends in Fog/Edge Computing that represent challenges and opportunities for CPS and IoT researchers and practitioners.

Topics include but are not limited to:

Fog Computing Architectures and Frameworks	Control-as-a-service and Virtualization of Control, Guaranteeing Quality-of-Control
Virtualization and Hypervisors for Fog Computing	Fog Computing Modeling and Analysis
Middleware for Fog Computing	Performance Analysis of Fog Computing Systems
Real-Time and Schedulability Aspects of Fog Computing	Fog and Cloud Integration
Formal Methods for Fog Computing Systems	Data Analytics and AI/ML at the Edge
CPS and Fog Computing	Use Cases for / and Applications of Fog Computing
Multi-tiered, Novel Resource Management Solutions Involving the Edge/Fog/Cloud	Emerging Fog Communication Technologies and Protocols (IEEE Time-Sensitive Networking, 5G)
Software-Defined Solutions in Fog Computing	Fog Computing Security, Data Privacy and Trust
Mobile Fog Computing	Fog Computing Dependability and Safety
Data Centers and Infrastructures for Fog Computing	Standardization Efforts and Standards Relevant for Fog Computing
Programming Models and Runtime Systems for Fog Computing	Interoperability Standards and Solutions, Including OPC UA and DDS
Fog Resource Management for Guaranteed Quality-of-Service	Discussion of Open Datasets and Testbeds

Submission of papers:

The material must be unpublished and not under submission elsewhere. Submissions will be accepted based on their originality, quality, significance, and relevance. Position papers and review papers are welcome, as long as they contain original material. The papers will be published in ACM, *unless the authors notify the organizers that they prefer not to include their paper in ACM. The paper PDF will be linked in the program website, but it will not be considered a formal publication.* Please submit your paper via the [submission page](https://sites.google.com/iotcenter.dk/fog-iot) on the workshop website: <https://sites.google.com/iotcenter.dk/fog-iot>

By submitting a paper, the authors confirm that if the paper is accepted, at least one author will register for the workshop by the special registration deadline set in the notification of acceptance, and present the paper at the workshop in person. Extended versions of the accepted papers may be invited to special issues in a journal.

Paper Format: The main body of each submitted paper is limited to **4 pages** of technical content with additional pages permitted for the bibliography and acknowledgments only (i.e., references and acknowledgments do not count against the page limit). Submissions must be formatted according to ACM two-column conference style (US Letter, 8.5 inch x 11 inch, 9pt font, default margins, default line spacing). Please use the ACM proceedings template (LaTeX is preferred). The ACM typesetting guidelines are posted at the following document: <https://ipsn.acm.org/2019/HowTo.pdf>.



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