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2nd ESIIT Workshop 2019



2nd International Workshop on Embedded Software for Industrial IoT

March 29, 2019

Firenze Fiera, Fortezza da Basso, Florence, Italy

in conjunction with DATE 2019

Organizers

Oliver Bringmann (Eberhard Karls Universität Tübingen, Germany),
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Wolfgang Müller (Heinz Nixdorf Institute, Germany),
Daniel Müller-Gritschneider (Technische Universität München, Germany)

The Internet-of-things (IoT) is emerging as the backbone for industrial automation. The tremendous impact of IoT to industrial applications is a key reason for IoT research and developments to grow dramatically in importance and economic impact for the next decade. At the edge of the IoT, ultra-thin devices with extremely small software memory footprints need to be cheap and capable to run with extremely small amounts of energy support over a very long lifetime. At the same time, IoT software must provide smart functions including real-time computing capabilities, connectivity, security, safety, and remote update mechanisms. These constraints put a high pressure on IoT software development based on the specific properties of IoT devices.

The ESIIT 2019 joint academic/industry workshop will focus on software development and maintenance of IoT devices addressing the very limited resources and power dissipation of IoT edge nodes in the context of a very long life cycle in an operational IoT network. This covers issues like software synthesis, configurability, safety, security, upgrades, fault recovery, maintenance as well as constraints and opportunities from newly emerging IoT hardware platforms. The workshop intends to provide an open platform for exchange and communication on new directions and requirements to academia and industry. We plan to especially give industrial speakers and leading research experts a platform to present the requirements and most recent results in today's and future industrial IoT-constrained software development and maintenance. The main objectives are:

- to invite industrial experts to present current and future needs and requirements
- to present and discuss novel technologies and ideas from different research areas and domains
- to explore and align trends and future needs for IoT platform development and maintenance from the perspective of academia and industry.

Program

The final program is online [here](#) [1].

Proceedings

Workshop Presentations can be downloaded [here](#) [2].

Tentative Workshop Proceedings can be downloaded [here](#) [3].

Registration

Registration is done via the DATE website for Friday workshop W06 on the [DATE website](#) [4].

Final Presentation and Paper Upload

Upload your 1-4 page extended abstract/paper and your powerpoint presentation slides both [here](#) [5] by Mar 1st, 2019.

Paper format should follow A4 format of [IEEE manuscript templates for conference proceedings](#)

[6] (https://www.ieee.org/conferences_events/ [7] conferences/publishing/templates.html).

File name format should follow the following conventions. Take <file_identifier>.doc.pdf and <file_identifier>.ppt.pdf for the paper and presentation, where <file_identifier> should be composed of <YourSessionNo_PresentationNoInSession_YourInitials>. Example: if your name is John Smith and you have the second presentation in Session IV, your file names are 4_2_JS.doc.pdf and 4_2_JS.ppt.pdf

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Quell-URL: <https://www.edacentrum.de/esiit>

Links:

[1] http://adt.cs.upb.de/ESIIT_program_2019.pdf

[2] <http://adt.cs.upb.de/ESIIT2019-presentations.pdf>

[3] <http://adt.cs.upb.de/ESIIT2019-tproceedings.pdf>

[4] <https://www.date-conference.com/conference/workshop-w06>

[5] <https://www.edacentrum.de/en/esiit/final-upload>

[6] https://www.ieee.org/conferences_events/%20conferences/publishing/templates.html

[7] https://www.ieee.org/conferences_events/