DATE Workshop on

"Autonomous Systems Design" ASD2019

29 March 2019, Florence, Italy

http://asd2019.userweb.mwn.de/

CALL FOR PAPERS

The number of intelligent embedded devices continues to multiply rapidly therefore leading to the emergence of autonomous systems in order to provide highly efficient, safe and secure functions. Autonomous driving constitutes today one of the best examples of this trend. However, with the increase of the level of automation, systems design becomes very challenging in order to accommodate the high complexity, connectivity and heterogeneity of the system while complying with rigorous constraints in terms of safety, real-time capabilities and security.

ASD2019 is the 1st international workshop on Autonomous Systems Design. The goal of the workshop is to explore recent industrial and academic methods and methodologies in autonomous systems design. We invite interested contributors to submit papers to the workshop related, but not limited to, the following areas

- Design for autonomous systems including processes, modeling, optimization, verification, validation, and test.

- Embedded and cyber-physical systems platforms that implement and execute the autonomous system functions including their architectures, hardware, software, and communication.

- Dependable systems design for autonomous systems including, but not limited to, functional safety concepts, fail-operational systems design, functional safety for applications with machine learning, safe and secure changes and updates, autonomous systems security.

To emphasize the workshop character, position papers and problem statements elaborating challenges in the design practices are also welcome.

Publishing Format   Accepted papers will be published in collaboration with Dagstuhl's OpenAccess Series in Informatics (OASIcs) series, free and open access online proceedings. The papers will be referenced in major databases such as DBLP. Submitted papers should not exceed 15 pages and should follow the OASIcs formatting instructions.

Submission Deadline (Abstract)   : 18 November 2018

Submission Deadline (Full Paper)   : 25 November 2018

Acceptance Notification   : 20 January 2019

Workshop Day   : 29 March 2019

Organizers

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