



## Press Release

### EDAA Outstanding Dissertations Award 2019

Grenoble, February 6<sup>th</sup>, 2020. In recognition of the importance of university research to the advancement of design, automation and test, and to encourage young researchers to work in the field, the European Design and Automation Association (EDAA) has established an award for outstanding Ph.D. dissertations.

Four categories have been considered in 2019:

**Topic 1 – New directions in software design and optimization for embedded, cyber-physical and secure systems.**

**Topic 2 – New directions in system-on-chip platforms co-design, novel emerging architectures and system- level management.**

**Topic 3 – New directions in logic, physical design and CAD for analog/mixed-signal, nano-scale and emerging technologies.**

**Topic 4 – New directions in safety, reliability and security-aware hardware design, validation and test for systems and circuits**

An open call for nominations was organized. The awards are open to young researchers from any country. The dissertations must have been finalized in the last 2 years before the submission deadline. The nominations had to include - An extended statement explaining the outstanding contributions of the thesis, The PhD thesis, preferably in English, a CV and a list of related publications. Each nomination had to be supported by at least three reference letters of experts, and at least one from a different university.

In 2019 EDAA has received a total of 18 submissions from around the world. In each category, a committee of international experts evaluated all nominations and selected the final winner. Each award consists of a 1000 € prize and a certificate.

The 2019 winners have been selected by a high level jury composed by Prof. Lorena Anghel, Prof. David Atienza, Prof. Cristiana Bolchini, Prof. Alberto Bosio, Prof. Franco Fummi, Prof. Jan Madsen, Prof. Yiorgos Makris, Prof. Subhasish Mitra, Prof. David Pan, Prof. Zebo Peng, Prof. Iliia Polian, Prof. Donatella Sciuto, Prof. Olivier Sentieys, Dr. Haralampos Stratigopoulos, Prof. Mehdi Tahoori, Prof. Jurgen Teich, Dr Aida Todri, Prof. Norbert Wehn.

They will be awarded at the DATE 2020 Conference and Exhibition, to be held March 9th-13th in Grenoble, France ([www.date-conference.com](http://www.date-conference.com)).

The 2019 the four winners are:

- **Eric Schneider, Ph.D.** (U Stuttgart, Advisor: H-J Wunderlich); Thesis: *"Multi-Level Simulation of Nano-Electronic Digital Circuits on GPUs"*.
- **Fabio Passos, Ph.D.** (U. of Sevilla; Advisors: Dr. Francisco V. Fernández and Dr. Elisenda Roca ); Thesis: *"A Multilevel Approach to the Systematic Design of Radio-Frequency Integrated Circuits"*.
- **Ahmedullah Aziz, Ph.D.** (Purdue University, USA; Advisor: Sumeet Gupta); Thesis: *"Device-Circuit Co-design Employing Phase Transition Materials for Low Power Electronics "*
- **Innocent Agbo, Ph.D.** (U. of Delft; Advisor: S. Hamdioui); Thesis: *"Reliability Modeling and Mitigation for Embedded Memories"*.

This year, EDAA decided to grant an additional award, underlining original and innovative EDA contributions in an emerging research domain and very hot topic: Quantum Computing Systems. The price goes to:

- **Alwin Zulehner, Ph.D** (U. of Linz, Austria, Advisor: R. Wille); Thesis: *"Design Automation for Quantum Computing"*

In addition, SPRINGER will publish these awarded dissertations in the EDAA Outstanding Monographs series.

**More information:**

<http://www.edaa.com/>

**Lorena Anghel, EDAA Vice-Chair**

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EDAA is a non-profit association. Its purpose is to operate for educational, scientific and technical purposes for the benefit of the international electronics design and design automation community. The Association, in the field of design and design automation of electronic circuits and systems, promotes a series of high quality technical international conferences and workshops across Europe and cooperates actively to maintain harmonious relationships with other national and international technical societies and groups promoting the purpose of the Association. EDAA is the main sponsor of DATE, the premier Design, Automation and Test Conference and Exhibition in Europe.