



## Press Release

### EDAA Outstanding Dissertations Award 2020

Grenoble, February 2<sup>th</sup>, 2021. 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 2020 EDAA has received a total of 22 submissions from around the world. A committee of international experts evaluated all nominations and selected the final winner. Each award consists of a 1000 € prize and a certificate.

The 2020 winners have been selected by a high level jury composed by Prof. Lorena Anghel, Prof. David Atienza, Dr. Olivier Bringman, Dr. Giorgio Di Natale, Prof. Franco Fummi, Prof. George Gielen, Prof. Jie Han, Prof. David Pan, Prof. Ilia Polian, Prof. Donatella Sciuto, Prof. Olivier Sentieys, Dr. Haralampos Stratigopoulos, Prof. Mehdi Tahoori, Prof. Jurgen Teich, Prof. Ingrid Verbauwhede, Dr. Pascal Vivet, Prof. Norbert Wehn, Prof. Robert Wille, Prof. Hans-Joachim Wunderlich.

They will be awarded at the DATE 2020 Conference and Exhibition, to be held February 1<sup>st</sup>-5<sup>th</sup> as a Virtual Event ([www.date-conference.com](http://www.date-conference.com)).

The 2020 the four winners are:

- **Linghao Song, Ph.D.** (Duke University, USA; Advisor: Prof. Yiran Chen and Prof. Hai Li); Thesis: *“Accelerator Architectures for Deep learning and Graph Processing”*.
- **Eleonora Testa, Ph.D.** (EPFL, Switzerland; Advisors: Prof. Giovanni de Micheli and Dr. Mathias Soeken); Thesis: *“Data Structures and Algorithms for Logic Synthesis in Advanced Technologies”*.
- **Dennis Gnad, PhD.** (KIT, Germany; Advisor: Prof. Mehdi Tahoori); Thesis: *“Remote Attacks on FPGA Hardware ”*
- **Jeremie Kim, Ph.D.** (Carnegie Mellon University, USA; Advisor: Prof. Onur Mutlu); Thesis: *“Improving DRAM Performance, Security and Reliability by Understanding and Exploiting DRAM Timing Parameter Margins”*.

More information:

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

Lorena Anghel, EDAA Vice-Chair

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.