



## COMPETE FOR THE \$1000 AWARD

**Improve design automation for integrated circuits and systems!**

As usual in SMACD Conferences, the 2020 edition will also hold a thrilling and dynamic event where MSc and PhD students can compete with their best ideas, methodologies, flows and tools with one unique yet challenging goal: To improve design automation for integrated circuits and systems!

### HOW TO ENTER THE COMPETITION?

All participants must submit a paper (following the same SMACD 2020 submission guidelines) with a description of the methodology and/or tool, the design problem of their choice and the solution provided by their methodology and/or tool.

The first author of the submission and presenter at the conference must be a MSc or a PhD student!

### IMPORTANT NOTES

All accepted submissions in the competition will be presented by the students in special sessions at the conference and published in the conference proceedings.

The presenters must perform a live demo of the methodologies and/or tool.

SMACD organization guarantees internet connection to all participants, but required CAD tools or design kits licensing is in responsibility of each participant.

Papers not accepted for the competition short-list event will still be considered by the technical program committee for the SMACD 2020 regular sessions.

### TOPICS OF INTEREST

Modeling, simulation and synthesis for analog, mixed-signal, RF, multidomain (such as MEMS, nanoelectronic, optoelectronic, biological).

### EVALUATION CRITERIA

A Judging Committee will select the winner(s) based on the quality of the paper, of its presentation at the conference and the live demonstration, using the following criteria:

- Complexity of the problem posed in the paper
- Level of automation (e.g., fully automated, user-assisted, etc.)
- Designer interface (e.g., problem setup, result analysis, etc.)
- Applicability of the proposal (e.g., general approach or restricted to special problems, circuit classes or sizes, etc.)
- Integration degree with commercial design suites and design methodologies (e.g., import and export data from these suites, usability in one or more steps of current design flows, etc.)
- Robustness of the design solutions (e.g., against parasitics, variability, etc.) and of the proposal itself (e.g. convergence, insensitivity to input and/or starting values, etc.)

### IMPORTANT DATES

- 6th March 2020** Paper Submission Deadline
- 17th April 2020** Author Notification
- 15th May 2020** Camera Ready Paper Submission
- 15th May 2020** Early Registration Deadline

### CONFERENCE VENUE

Tagungs- & Begegnungsstätte Evangelisches Augustinerkloster zu Erfurt Augustinerstraße 10, 99084 Erfurt, Germany

### CONTACT:

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