SPECIAL SESSION ON "RELIABILITY AND FAULT TOLERANCE IN EMERGING TECHNOLOGIES"

SMACD23

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SMACD 2023: 3 TO 5 JULY, FUNCHAL - MADEIRA ISLAND, PORTUGAL

The **2023 edition** of the *International Conference on Synthesis, Modeling, Analysis and Simulation Methods and Applications to Circuit Design* (SMACD) will be held at VidaMar Resort Hotel, a stunning location on Madeira island, Portugal. SMACD is a forum devoted to modeling, simulation, and synthesis for Analog, Mixed-signal, RF (AMS/RF), and multi-domain (nanoelectronics, biological, MEMS, optoelectronics, etc.) integrated circuits and systems. Open-source tools and methods for AMS/RF and multi-domain IC design and experiences with modeling, simulation, and synthesis techniques in diverse application areas are also welcomed. Objective technologies include CMOS, beyond CMOS, and More-than-Moore such as MEMs, power devices, sensors, passives, etc. SMACD is **technically co-sponsored** by the **IEEE**, **IEEE CEDA** and **IEEE CASS**, and its proceedings will be published in **IEEExplore**.

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The focus of this special session is on the advancements in reliability and fault tolerance techniques for emerging technologies, including FPGA, SoC, MPSoC, three-dimensional technologies (such as 2.5D/3D Integrated Circuits), nanoscale FinFET devices, innovative memories (such as PCRAM, STTMRAM, RRAM), introducing state-of-the-art investigations on the methods and techniques as well as modern implementation technologies enabling an effective and efficient development of highly reliable systems.

The topics of interest include but are not limited to all the following topics:

- Design for Reliability
- Design for Single Event Effect Hardening
- Single Event Effect Modeling, Analysis, and Mitigation
- Design and Test for 2.5D/3D ICs
- Reliability of embedded systems such as FPGAs, SoC, and MPSoC

DATES

Submission Deadline .... **February 3rd, 2023**
Author Notification .... **March 17th, 2023**
Early Registration Deadline ...... **March 31st, 2023**

CONFERENCE VENUE

VidaMar Resort Hotel, Funchal, Madeira Island

SPECIAL SESSION ORGANIZER

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IEEE   **CEDA** IEEE Council on Electronic Design Automation   **CAS** IEEE CIRCUITS AND SYSTEMS SOCIETY

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