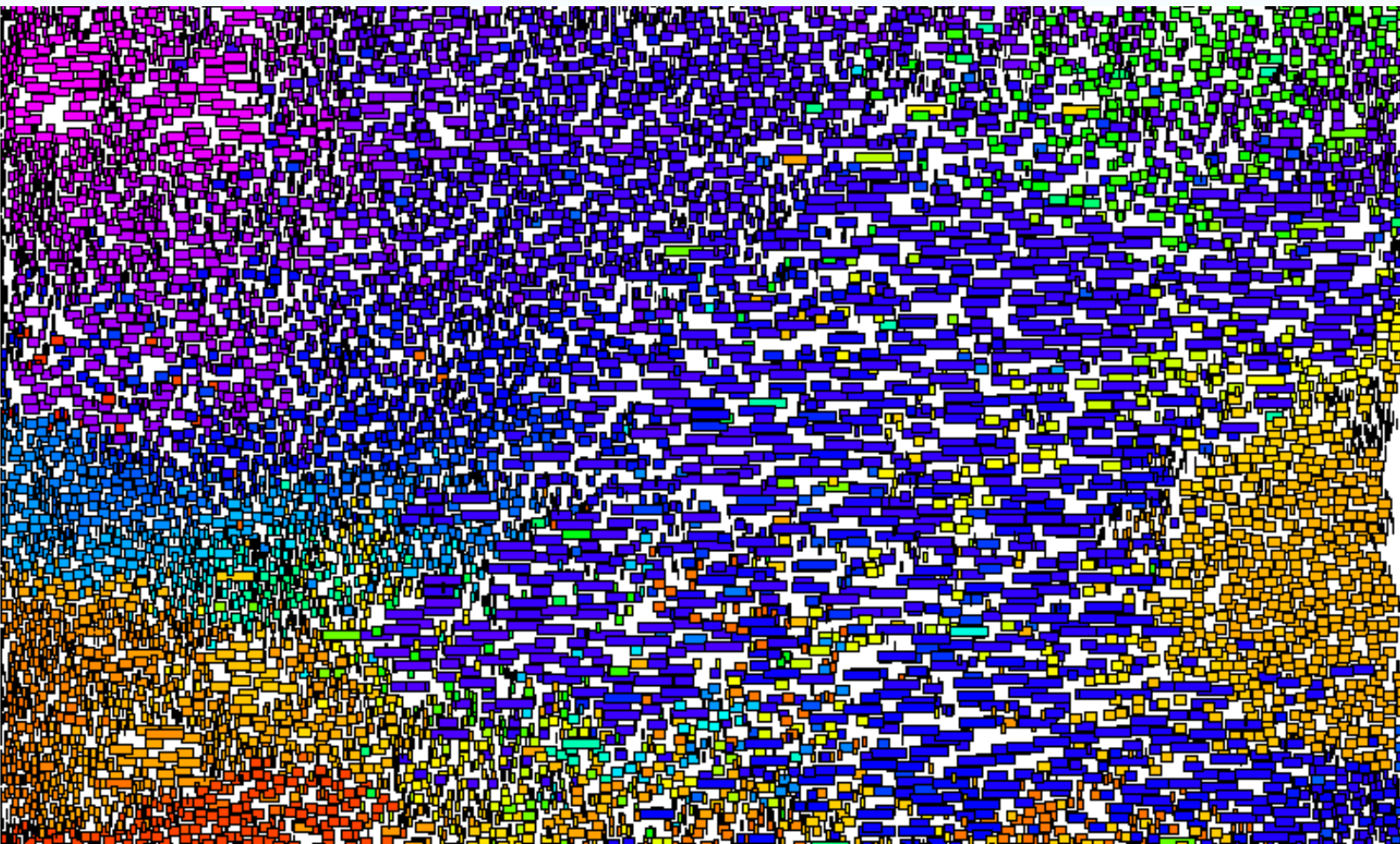


# WCAS2015

5<sup>th</sup> WORKSHOP ON  
CIRCUITS AND SYSTEMS DESIGN  
CHIP IN BAHIA



Salvador, Bahia, BRAZIL  
August 31 to September 4, 2015

[www.wcas.org.br](http://www.wcas.org.br)



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**For Program Committee Members, please see the conference webpage**

This fifth Workshop on Circuits and System Design - WCAS 2015 is devoted to the presentation and discussion of design experiences with a high degree of relevance in industrial, educational and research contexts, as well as innovative design methodologies and application of specific design technologies in an industrial context.

The workshop is organized within two tracks: industrial and academic. Contributions should illustrate state-of-the-art designs, design methodologies or tools, which will provide viable solutions in tomorrow's silicon and embedded systems. The contribution should present electronic circuit and system design results from FPGA and/or ASIC prototypes, or from simulation. Designs that achieve a specific record in terms of performance, power management or any other concrete advantage compared to the state-of-the-art for a given application domain should also be submitted to this workshop. Validated methodologies and techniques through demonstration are welcome.

The authors are invited to submit a 2-to-4 page and double column version of the paper. The text must focus on the presentation of results and contain essential information with sufficient detail to be understood technically. The inclusion of measured results for key parameters, schematics, and a tabulated comparison with the state-of-the-art are strongly recommended. For papers on integrated circuits submitted to the industrial track, results from silicon implementation, including a die photograph, are mandatory. For academic submissions, results from simulations will also be accepted, provided that the simulations take into account non-idealities that will affect the practical realization of the circuit. Other contributions on design methodology and also proof of concept using discrete electronics are welcome.

Papers should be prepared for blind review. The accepted papers will be presented in poster or oral sessions. The author(s) of the best papers will be invited to submit an expanded version to be considered for publication in the Journal of Integrated Circuits and Systems (JICS). The papers will follow the regular journal review process.

The main idea of the workshop is to offer the chance (primarily to industry) of pointing out to the community real-life design and technology challenges that should be addressed in the short-to-medium term.

The areas of interest include, but are not limited to:

- 1 - Analog & RF & Mixed Signal
- 2 - EDA, Verification and Test
- 3 - Digital, Reconfigurable & Applications
- 4 - SoC, NoC, Embedded
- 5 - Industrial Application of ASICs (Computing, Communication, Consumer, Transportation, Medical/Healthcare, Energy Generation, Recovery, and Management Systems, and others)

#### Important Dates:

**Paper Submission Deadline:**

**May 31<sup>st</sup>, 2015**

**Notification of Acceptance:**

**July 12<sup>nd</sup>, 2015**

**Camera-Ready Deadline:**

**July 26<sup>th</sup>, 2015**

#### Sponsored by:

**SBC - Brazilian Computer Society**

**SBMicro - Brazilian Microelectronics Society**

#### Organized by:

**UFBA - Universidade Federal da Bahia**

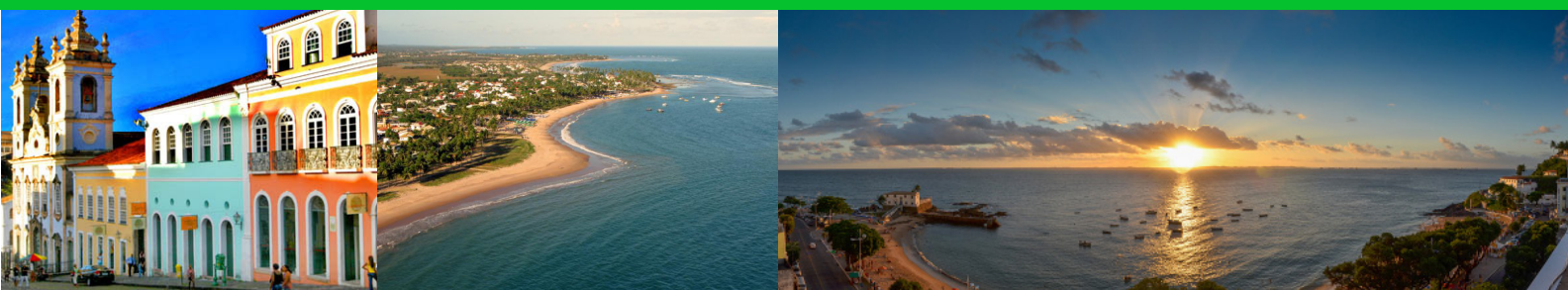
**SENAI-CIMATEC-Bahia**

#### Supported by:

**CNPq, CAPES, FINEP, FAPESB**

#### Location:

Bahia is a state in the Northeast Brazil, remarkable for its large sunny coast, cooled by a gentle sea breeze, as well as for its hills, mountains, monoliths and canyons in the countryside, which shelter splendid caves, a unique vegetation and singular water falls. Salvador, capital of Bahia and first capital of Brazil, peculiarly placed on a graben of Todos os Santos Bay, is the center of Afro-Brazilian culture. The three core peoples present in Brazil foundation have harmoniously blended at Salvador. The colorful architecture of Pelourinho district and the many gold dressed baroque style churches are the most prominent Portuguese legacies. Important place names, such as Itapoan beach and Itaparica island, retrace our Indigenous past. However, undoubtedly the African influence dominates many cultural aspects of the city: from the ubiquitous use of dendê (palm oil) in the typical dishes to the extravagantly beautiful hairdressing, from the musical beats of axé and samba to the religious traditions of candomblé. Come to the Chip in Bahia, where friendly people with large smiles welcome the whole world, and enjoy its vivid blue sea water calmed inside magnificent inlets shadowed by coconut trees.



WCAS2015 will be co-located with  
SBCCI2015 - The 28<sup>th</sup> Symposium on Integrated Circuits and Systems Design,  
SBMicro2015 - The 30<sup>th</sup> Symposium on Microelectronics Technology and Devices and  
SForum 2015 - 15<sup>th</sup> Microelectronics Students Forum