

PATMOS 2015

25th
edition

25th International Workshop on
Power and Timing Modeling, Optimization and Simulation

Salvador, Bahia, BRAZIL

September 1 to 4, 2015

CHIP IN BAHIA



PATMOS has a history of 25 years and it is one of the first conferences world-wide to focus on low power. PATMOS 2015 is co-located with VARI 2015 and SBCCI 2015 in Salvador, Brazil. The traditional scope of the PATMOS conference series has mainly been about and around the design of circuits and architectures optimized for highest performance at lowest power consumption. But meanwhile, power-efficiency has become extremely important for many more areas spreading far beyond this traditional R&D niche. Energy-efficient ICT (Information and Communication Technology) infrastructures are a key issue of local and global economies. Some predict that until the year 2030, if current trends continue, the electricity consumption caused by the Internet to grow by up to 30 times. Energy prices will grow substantially. The next generation of oil and gas seismic simulations, for instance, will require orders of magnitude more computational power. Already during the past 11 years the price of crude oil increased by a factor of 9 with significantly increasing tendency in the future. The strong increase of wireless communication and the growth of cloud computing will further contribute to this trend. A future peta- or exa-flop supercomputer would need its own power plant if the gap between computation and power consumption could not be resolved: It is the intention of PATMOS 2015 to think beyond current solutions such that the very wide gap between computation and the massive energy consumption for ICT infrastructures can be closed.

Topics of Interest:

Authors are invited to submit manuscripts of original unpublished research. The topics of interest include, but are not limited to:

- Timing and Performance
- Low Power and Thermal-aware Design
- Compilers, operating systems and runtime systems
- FPGAs and GPU-based accelerators
- Power-efficient High-performance ICT and Data Centers
- Case studies

(more details at the [conference webpage](http://www.patmos-conf.org))

General Co-Chairs:
Ricardo Reis, UFRGS, Brazil
reis@inf.ufrgs.br

Robson Nunes de Lima, UFBA, Brazil
delima@ufba.br

Program Co-Chairs:
Josep L. Rosselló, UIB, Spain
j.rossello@uib.es

Fernanda Lima Kastensmidt, UFRGS, Brazil
fglima@inf.ufrgs.br

Local Arrangements Chair:
Márcio Fontana, UFBA, BRAZIL

Edson Santana, UFBA, BRAZIL

Important Dates:

Submission deadline (Regular Papers):
May 8, 2015

Submission deadline (Special Sessions):
May 15, 2015

Notification of acceptance:
June 26, 2015

Camera-ready papers due:
July 24, 2015

www.patmos-conf.org



IEEE

