

PRELIMINARY CALL FOR PAPERS



LATS2021

22nd IEEE Latin-American Test Symposium

Punta del Este, Uruguay, 27th - 29th October 2021

www.lats.ttc-events.org

22nd IEEE Latin-American Test Symposium

Punta del Este, Uruguay, 27th - 29th October 2021



PRELIMINARY CALL FOR PAPERS

The IEEE Latin-American Test Symposium (LATS) is a recognized test and fault tolerance techniques forum attended by professionals from all over the world, in particular from Latin-America, to present and discuss various aspects of system, board, and component testing as well as design, manufacturing and in-field considerations with fault tolerance in mind. All presented papers will be published in the IEEE Xplore Digital Library and the best papers of its 22nd edition will be invited to re-submit to IEEE Design&Test, Journal of Electronic Testing: Theory and Applications (JETTA - Springer), Journal of Low Power Electronics (JOLPE - American Scientific Publishers), and IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD).

Topics of interest include but are not limited to

CAD for robust circuits design	Memory test and repair
Cross-layer reliability approaches	On-line monitoring
Dependable system design	On-line testing techniques
Dependable Computer Architectures	Power density and overheating issues in nanometer technologies
Design for Electromagnetic Compatibility (EMC)	Quality, yield, reliability and lifespan issues in nanometer technologies
Design for reliability	Reliability issues of Low-Power Design
Design for reliability approaches for Low-Power	Robustness evaluation
Design for Robustness	Self-Adapting design
Design for Security	Self-checking circuits and coding theory
Fault-based attacks and countermeasures	Self-Healing design
Fault-tolerant and fail-safe systems	Self-Regulating design
Field Diagnosis, maintainability, and reconfiguration	Self-test and self-repair
Functional safety	Variability, Aging, EMI, and Radiation Effects in nanometer technologies
IC- and system-level radiation hardening techniques	
Infrastructure, cloud computing, and wired, cellular and satellite communications	

Paper Submission Information

To encourage and facilitate discussions, participation will be limited. Those interested in presenting recent results at the symposium are invited to submit an extended abstract, one to three pages long, or a full length paper. PDF electronic submissions must be done via the symposium's webpage: www.lats.ttc-events.org

Authors should send papers in the IEEE format. Detailed instructions are available at the symposium's webpage. The Program Committee also welcomes proposals for panels and special sessions.

For additional information, please contact our Program Co-Chairs:

Leticia Bolzani Poehls – RWTH Aachen, Germany (leticia@poeahls.com)

Fabian Luis Vargas - PUCRS, Brazil (vargas@computer.org)

Submission Deadline (Title and Abstract): April 30th, 2021

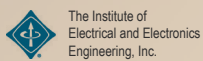
Submission (Full paper): May 7th, 2021

Notification of Acceptance: June 18th, 2021

Camera Ready: July 2nd, 2021.

Punta del Este is a peninsular city located in Uruguay's south. The beach resort with its casinos, beaches and yachts is located on a narrow strip of land separating the Río de la Plata from the Atlantic Ocean it has a longstanding tradition as one of the most important vacation destinations in Latin America. As a touristic location par excellence the city's population is reaching up to 450,000 inhabitants during the main tourist season in summer. The city already has a tradition of hosting important events: the 'Uruguay Round', occurring in the city from 1986 to 1994, laid the diplomatic groundwork for today's World Trade Organization. Further growing as a cultural and political center for the region, the beautiful Punta del Este is projected to become university city, as well as a center for international events, conventions and fairs over the next years.

Technical Sponsors:



Organized by:



Financial Sponsors:



General Co-Chairs:

Raoul Velazco - TIMA, France
raoul.velazco@univ-grenoble-alpes.fr

Yervant Zorian - SYNOPSIS, USA
yervant.zorian@synopsys.com

Past General Chair:

Leticia Bolzani Poehls – RWTH Aachen, Germany

Program Co-Chairs:

Leticia Bolzani Poehls – RWTH Aachen, Germany
Fabian Luis Vargas - PUCRS, Brazil

Special Session Co-Chairs:

Ernesto Sanchez – Politecnico di Torino, Italy
Felipe Restrepo Calle – Univ. Nac. de Colombia, Colombia
Tiago Balen – UFRGS, Brazil

Embedded Tutorial Co-Chairs:

Maksim Jenihhin – Tallinn University of Technology, Estonia
Matteo Sonza Reorda – Politecnico di Torino, Italy

Publication Chair:

Julio Perez Aclé – Univ. de la Rep. de Uruguay, Uruguay

European Liaison:

Hans-Joachim Wunderlich – Univ. Stuttgart, Germany

Asian Liaison:

Stefan Holst – Kyushu Institute of Technology, Japan

Photos from Punta del Este:



Casapueblo (museum, art gallery, cafeteria, hotel)



La Mano en la Arena (hand in the sand)



Punta del Este at night

Steering Committee:

Victor Champac - INAOE, Mexico
Marcelo Lubazewski - UFRGS, Brazil
Fabian Vargas - PUCRS, Brazil
Raoul Velazco - TIMA, France
Yervant Zorian - Synopsis, USA
Tiago Balen - UFRGS, Brazil
Leticia M. Bolzani Pöhls - RWTH Aachen, Germany
Matteo Sonza Reorda - Politecnico di Torino, Italy