

Preface

The International Workshop on Power and Timing Modeling, Optimization, and Simulation PATMOS 2002, was the 12th in a series of international workshops previously held in several places in Europe.¹ PATMOS has over the years evolved into a well-established and outstanding series of open European events on power and timing aspects of integrated circuit design. The increased interest, especially in low-power design, has added further momentum to the interest in this workshop. Despite its growth, the workshop can still be considered as a very focused conference, featuring high-level scientific presentations together with open discussions in a free and easy environment. This year, the workshop has been opened to both regular papers and poster presentations. The increasing number of worldwide high-quality submissions is a measure of the global interest of the international scientific community in the topics covered by PATMOS.

The objective of this workshop is to provide a forum to discuss and investigate the emerging problems in the design methodologies and CAD-tools for the new generation of IC technologies. A major emphasis of the technical program is on speed and low-power aspects with particular regard to modeling, characterization, design, and architectures. The technical program of PATMOS 2002 included nine sessions dedicated to most important and current topics on power and timing modeling, optimization, and simulation. The three invited talks try to give a global overview of the issues in low-power and/or high-performance circuit design. The first one presents a history of low-power clock watches, while the other ones deal with high performance clocking and the state of the art in low-voltage memories.

In 2002, the venue was Seville, Spain. The workshop was organized by the Microelectronics Spanish Center (IMSE-CNM) and the University of Seville. Seville is the major city in the southwest of Spain and one of its richest historic, cultural, and artistic spots. Seville is the capital of the Autonomous Community of Andalusia and has a population of over 700,000. Many very different cultures have figured in the history of Sevilla. The legacy of these cultures has grown over the centuries into the cultural, monumental, and artistic heritage that can be admired in the city's streets and museums today.

September 2002

Bertrand Hochet
Antonio J. Acosta
Jorge Juan-Chico

¹ Visit the web site: <http://www.patmos-conf.org>

Organization

Organization Committee

General Co-chairs:	Prof. Antonio J. Acosta Prof. Jorge Juan-Chico (Inst. de Microelectrónica de Sevilla, CNM; Universidad de Sevilla, Spain)
Program Chair:	Dr. Bertrand Hochet (Inst. of Microelectronics and Systems, University of Applied Sciences, Yverdon-les-Bains, Switzerland)

Local Committee

Finance Chair:	Prof. Manuel Valencia
Local Arrangements:	Prof. Carmen Baena Prof. Pilar Parra
Publication and Web:	Prof. Manuel Bellido Prof. Alejandro Millán Prof. Paulino Ruiz de Clavijo (Inst. de Microelectrónica de Sevilla, CNM; Universidad de Sevilla, Spain)

Program Committee

D. Auvergne (U. Montpellier, France)
J. Bormans (IMEC, Belgium)
J. Figueras (U. Catalunya, Spain)
C.E. Goutis (U. Patras, Greece)
A. Guyot (INPG Grenoble, France)
R. Hartenstein (U. Kaiserslautern, Germany)
S. Jones (U. Loughborough, UK)
P. Larsson-Edefors (U. Linköping, Sweden)
E. Macii (Politecnico di Torino, Italy)
V. Moshnyaga (U. Fukuoka, Japan)
W. Nebel (U. Oldenburg, Germany)
J.A. Nossek (T.U. Munich, Germany)
A. Núñez (U. Las Palmas, Spain)
M. Papaefthymiou (U. Michigan, USA)
H. Pfeiderer (U. Ulm, Germany)
C. Piguet (CSEM, Switzerland)

R. Reis (U. Porto Alegre, Brazil)
M. Robert (U. Montpellier, France)
A. Rubio (U. Catalunya, Spain)
J. Sparsø (T.U. Denmark)
A. Stauffer (Swiss Fed. Inst. of Tech. Lausanne)
A. Stempkowsky (Acad. of Sciences, Russia)
T. Stouraitis (U. Patras, Greece)
A.-M. Trullemans-Anckaert (U. Louvain)
R. Zafalon (STMicroelectronics, Italy)

PATMOS Steering Committee

Daniel Auvergne (U. Montpellier, France)
Reiner Hartenstein (U. Kaiserslautern, Germany)
Wolfgang Nebel (U. Oldenburg, Germany)
Christian Piguet (CSEM, Switzerland)
Antonio Rubio (U. Catalunya, Spain)
Joan Figueras (U. Catalunya, Spain)
Bruno Ricco (U. Bologna, Italy)
Dimitrios Soudris (U. Trace, Greece)
Jean Sparsø (T.U. Denmark)
Anne Marie Trullemans-Anckaert (U. Louvain, Belgium)
Peter Pirsch (U. Hannover, Germany)
Bertrand Hochet (EIVd, Switzerland)
Antonio J. Acosta (U. Sevilla/IMSE-CNM, Spain)
Jorge Juan (U. Sevilla/IMSE-CNM, Spain)
Enrico Macii (Politecnico di Torino, Italy)

Executive Subcommittee for 2002

President: Christian Piguet
(CSEM, Switzerland)
Vice-president: Joan Figueras
(U. Catalunya, Spain)
Secretary: Reiner Hartenstein
(U. Kaiserslautern, Germany)

Sponsoring Institutions

- IEEE Circuits and Systems Society
- IEEE Circuits and Systems Society Spanish Chapter
- European Commission, 5th Framework Programme, Grant IST2001-92074
- Consejo Superior de Investigaciones Científicas (CSIC), Centro Nacional de Microelectrónica

- Universidad de Sevilla, Vicerrectorados de Investigación y de Extensión Universitaria
- Ministerio de Ciencia y Tecnología, Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica, Acción especial TIC2001-4774-E
- Junta de Andalucía. III Plan Andaluz de Investigación