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Edited by

Simon Knowles
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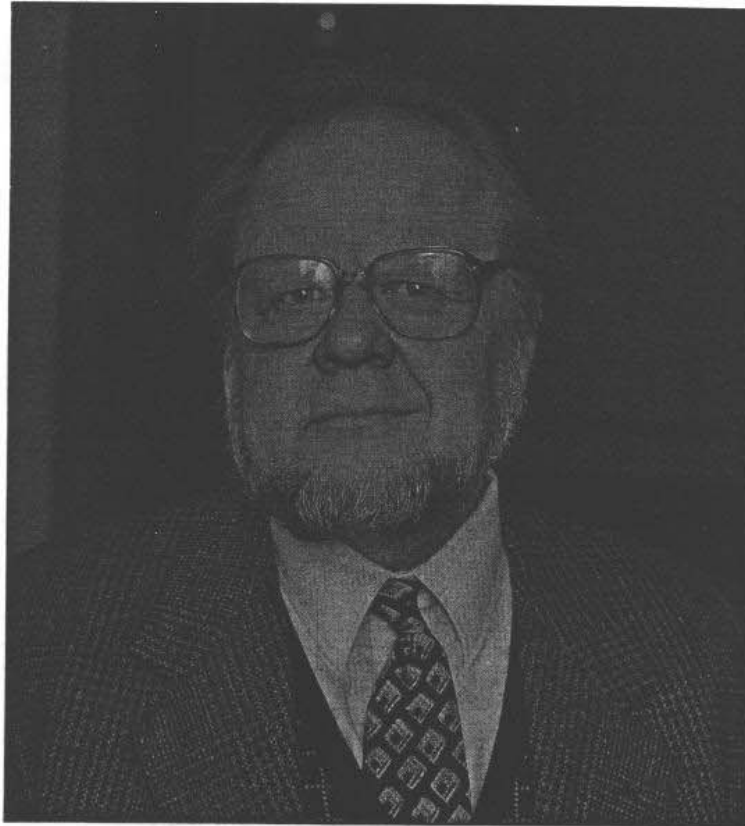
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Professor Algirdas Avizienis

The Proceedings of the 12th Symposium on Computer Arithmetic are dedicated to Dr. Algirdas Avizienis, Professor Emeritus at the University of California, Los Angeles, in recognition of his outstanding contribution to the field of computer arithmetic.

Professor Avizienis' seminal PhD thesis on signed-digit number systems, published in 1960 at the University of Illinois, laid the foundation for the powerful techniques of redundant arithmetic which are ubiquitous in present-day arithmetic chips and systems. At the same time, it provided a formal framework unifying several important earlier techniques, such as Booth recoding, carry-save addition, and the Nadler/SRT division algorithm.

In the subsequent 35 years, Al Avizienis has published over 120 research papers in the fields of computer arithmetic and fault-tolerant computing. He has taught on the faculty of the University of California, Los Angeles, since 1972, and at several other Universities. He was elected a Fellow of the IEEE "for fundamental contributions in fault-tolerant computing", founded the Technical Committee on Fault-Tolerant Computing, and has served on the Governing Board of the IEEE Computer Society.

Al has been an active participant in the ARITH Symposia since the first workshop in 1969. He was a contributing author to the first seven, and co-organized the 4th and the 9th. It is a pleasure and an honour to welcome him to this, the 12th Symposium on Computer Arithmetic.

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Workshop at IEEE Computer Group Conference, Minneapolis, Minnesota

June 16, 1969

R.R. Shively

SCA-2 University of Maryland, College Park, Maryland

May 15-16, 1972

H.L. Garner and D.E. Atkins

SCA-3 Southern Methodist University, Dallas, Texas

November 19-20, 1975

T.R.N. Rao and David W. Matula

SCA-4 University of California at Los Angeles

October 25-27, 1978

Algirdas Avižienis and Miloš D. Ercegovic

SCA-5 University of Michigan, Ann Arbor, Michigan

May 18-19, 1981

K.S. Trivedi and D.E. Atkins

ARITH-6 Aarhus University, Århus, Denmark

June 20-22, 1983

T.R.N. Rao and Peter Kornerup

ARITH-7 University of Illinois, Urbana, Illinois

June 4-6, 1985

Kai Hwang, D.D. Gajski, and A. Sameh

ARITH 8 Villa Olmo, Como, Italy

May 19-21, 1987

Luigi Dadda, Mary Jane Irwin, and Renato Stefanelli

ARITH-9 Santa Monica, California

September 6-9, 1989

Algirdas Avizienis, Miloš Ercegovic, and Earl Swartzlander

ARITH-10 Grenoble, France

June 26-28, 1991

Jean-Michel Muller, Peter Kornerup, and David Matula

ARITH-11 Windsor, Ontario, Canada

June 29-July 2, 1993

Earl Swartzlander, Mary Jane Irwin, and Graham Jullien