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DIGITAL SIGNAL PROCESSING - 91

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Edited by

V. CAPPELLINI

*Department of Electrical Engineering
University of Florence
Florence, Italy*

and

A. G. CONSTANTINIDES

*Department of Electrical Engineering
Imperial College of Science, Technology and Medicine
University of London
London, U.K.*



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PREFACE

This book represents the Proceedings of the ninth International Conference on Digital Signal Processing, held at the Hotel Michelangelo in Florence, September 4-6, 1991. Speakers from 22 Nations presented about 120 scientific and technical lectures grouped in regular and special Sessions, after a careful selection performed through an International Technical Committee. Conference papers reported here, therefore, provide an authoritative and permanent record of the contributions.

Some papers are more theoretical or of review nature, whilst others contain new implementations and applications. They are conveniently grouped into the following 18 fields:

- A. Digital Filters and Design Methods
- B. Spectral Estimation
- C. Digital Signal Processing Techniques
- D. Processing of Noisy Signals and Restoration Techniques
- E. Implementation Techniques and Architectures
- F. Super Performance Digital Signal Processing
- G. Speech Processing and Coding
- H. Digital Signal Processing and Communications
- I. Digital Image Analysis and Processing
- J. Image Coding and Transmission

- K. Pattern Recognition
- L. Neural Networks
- M. Radar and Sonar Applications
- N. Remote Sensing
- O. Digital Processing of Biomedical Images
- P. Digital Communication Networks
- Q. Object Recognition
- R. Industrial Robotic Vision.

The four fields F, L, Q and R were covered in special Sessions in the framework of the Conference.

In overall the book gives and advanced "scenario" of the wide interdisciplinary DSP area, which is highly important in its diverse aspects (theory, implementation, applications).

This work will be of interest not only to Universities and Research Laboratories engaged on studies and researches in DSP area, but also to Organizations and Industrial Centres concerned with DSP implementations and applications.

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A

**DIGITAL FILTERS AND
DESIGN METHODS**

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