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SIGNAL PROCESSING, COMPUTATIONAL GEOMETRY and ARTIFICIAL VISION

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Preface

The book you are currently holding contains the Proceedings of the 7th WSEAS International Conference on SIGNAL PROCESSING, COMPUTATIONAL GEOMETRY and ARTIFICIAL VISION (ISCGAV'07), which was held in Vouliagmeni, Athens, Greece, August 24-26, 2007.

Signal processing, computational geometry and artificial vision are important chapters of science in the improvement of our lives. Filter design and structures, fast algorithms, adaptive filters, nonlinear signals and systems, multirate filtering and filter banks, signal reconstruction, time-frequency analysis, spectral estimation, higher order spectrum analysis, speech production and perception, speech analysis and synthesis, signal analysis, digital transforms, multidimensional systems, machine vision, image coding, image sequence /motion/ video, computed imaging, pattern recognition, neural networks, fuzzy systems, evolutionary computation, expert systems, architectures and VLSI hardware, applied geometry are some of the most important branches of modern Signal processing, computational geometry and artificial vision. Many papers from all these branches are published in this Volume.

The Plenary Speech of ISCGAV '07 was:

- *Fuzzy Techniques in Computer Vision*
by Prof. Dorian Cojocaru, University of Craiova, Romania.

We would like to thank all members of the organizing laboratories for their contribution to the organization of the conference.

The contents of this Book are also published in the CD-ROM Proceedings of the Conference. Both will be sent to the WSEAS collaborating indices after the conference: www.worldses.org/indexes.

In addition, the papers of this book are permanently available to all the scientific community via the WSEAS E-Library.

Expanded and enhanced versions of papers published in these conference proceedings are also going to be considered for possible publication in one of the WSEAS journals that participate in the major International Scientific Indices (Elsevier, Scopus, EI, Compendex, INSPEC, CSA see: www.worldses.org/indexes) these papers must be of high-quality (break-through work) and a new round of a very strict review will follow. (No additional fee will be required for the publication in a journal).

We cordially thank all the people of WSEAS for their efforts to maintain the high scientific level of conferences, proceedings and journals.

The Editors

7th WSEAS International Conference on SIGNAL PROCESSING, COMPUTATIONAL GEOMETRY and ARTIFICIAL VISION (ISCGAV'07)

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