

Preface

Wavelet analysis is recently internationally recognized up to the minute tools for analyzing time-frequency. It is chiefly due to the “adaptive feature” and “mathematical micro telescope feature”, wavelet analysis is becoming a focus point of many sciences, and is fondly delighted as tools for so many scientific workers. It plays an important role in the signal & information processing. Just as S. Mallat said that wavelet analysis is not only based on a “bright new idea”, but also on concepts that already existed under various forms in many different fields. The formalization and emergence of this “wavelet theory” is the result of a multidisciplinary effort that brought together many kinds of scientists in the world.

This book and its sister volumes constitute the International Computer Conference 2004 on Wavelet Active Media Technology and Information Processing (ICWAMTIP2004), as a sequel of ICWAMTIP2004 successfully held, ICWAMTIP emerged as a leading conference on wavelet analysis and active media technology. In order to stimulate the future development, explore novel applications, and exchange ideas for developing robust solutions, the International Computer Conference 2006 on Wavelet Active Media Technology and Information Processing (ICWAMTIP2006) will held in Chongqing, China during August 29-August 31, 2006, and two volumes proceedings will be published by World Scientific Publishing Co. (WSPC).

We have received a lot of full papers submitted from all over the world. To ensure the quality of the ICWAMTIP2006, each paper was reviewed by different reviewers for three times. After a thorough review process, the program committee and scientific research committee selected 176 papers as regular papers and short papers. The ICWAMTIP2006 was divided to volume 1 and volume 2, published by WSPC. This book is an attempt to capture the essence of the current state of the art in wavelet analysis and active media technology.

Many people made significant efforts to ensure the success of this event. We must add that the ICWAMTIP2006 organizing committee, the

ICWAMTIP2006 program committee, the ICWAMTIP2006 scientific research committee and the reviewers did an excellent job.

We wish to thank all the authors for submitting their work to the ICWAMTIP2006. We hope that all of you will enjoy and benefit from the papers in this book.

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