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## Preface

Traditionally, signal processing techniques lay at the foundation of multimedia data processing and analysis. In the past few years, a new wave of advanced signal-processing techniques has delivered exciting results, increasing systems capabilities of efficiently exchanging image data and extracting useful knowledge from them. Signal Processing for Image Enhancement and Multimedia Processing is an edited volume, written by well-recognized international researchers with extended chapter style versions of the best papers presented at the SITIS 2006 International Conference.

This book presents the state-of-the-art and recent research results on the application of advanced signal processing techniques for improving the value of image and video data. It also discusses feature-based techniques for deep, feature-oriented analysis of images and new results on video coding on time-honored topic of securing image information. Signal Processing for Image Enhancement and Multimedia Processing is designed for a professional audience composed of practitioners and researchers in industry. This volume is also suitable as a reference or secondary text for advanced-level students in computer science and engineering.

The chapters included in this book are a selection of papers presented at the Signal and Image Technologies track of the international SITIS 2006 conference. The authors were asked to revise and extend their contributions to take into account the many challenges and remarks discussed at the conference. A large number of high quality papers were submitted to SITIS 2006, demonstrating the growing interest of the research community for image and multimedia processing.

We acknowledge the hard work and dedication of many people. We thank the authors who have contributed their work. We appreciate the diligent work of the SITIS committee members. We are grateful for the help, support and patience of the Springer publishing team. Finally, thanks to Iwayan Wikacsana for his invaluable help

Dijon, Milan  
July 2007

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Signal Processing for Image Enhancement and  
Multimedia Processing

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Schelkens, P.; Chbeir, R. (Eds.)

2008, XVI, 338 p., Hardcover

ISBN: 978-0-387-72499-7