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Optical and Digital Image Processing

Peter Schelkens
Touradj Ebrahimi
Gabriel Cristóbal
Frédéric Truchetet
Editors

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Introduction

In recent years, Moore's law has fostered the steady growth in the field of digital image processing, though computational complexity remains a significant problem for most of the digital image processing applications. At the same time, research in the field of optical image processing has matured, potentially bypassing the limitations of digital approaches and giving rise to new applications. The aim of this conference was to create a joint forum for both research and application communities to share expertise, to solve present-day application bottlenecks, and to propose new application areas. Consequently, this conference had a broad scope, ranging from basic and applied research to dissemination of existing knowledge.

This volume consists of the papers presented at the SPIE Optical and Digital Image Processing Conference which took place from 7–9 April, 2008, in Strasbourg, France.

The contributions were grouped in sessions covering holography-interferometry, industrial applications, wavelet methods, compression technologies, advanced camera systems, wavelet applications and denoising, watermarking, advanced imaging medical imaging, and the interaction between optics and digital image processing. We thank all the participants and all those who worked hard to make this conference so successful. Special thanks to all the reviewers that helped us to improve the quality of the final proceedings.

Peter Schelkens
Touradj Ebrahimi
Gabriel Cristóbal
Fred Truchetet