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Scale Space and Variational Methods in Computer Vision

Third International Conference, SSVM 2011
Ein-Gedi, Israel, May 29 – June 2, 2011
Revised Selected Papers

Springer

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Preface

The International Conference on Scale Space and Variational Methods in Computer Vision (SSVM 2011, www.ssvm2011.org) was the third instance of the conference born in 2007 as the joint edition of the Scale-Space Conferences (since 1997, Utrecht) and the Workshop on Variational, Geometric, and Level set Methods (VLSM) that first took place in Vancouver in 2001. Previous editions in Ischia, Italy (2007), and Voss, Norway (2009), were very successful, materializing the hope of the first SSVM organizers, Professors Sgallari, Murli and Paragios, that the conference would 'become a reference in the domain.'

This year, SSVM was held in Kibbutz Ein-Gedi, Israel—a unique place on the shores of the Dead Sea, the global minimum on earth. Despite its small size, Israel plays an important role on the worldwide scientific arena, and in particular in the fields of computer vision and image processing.

Following the tradition of the previous SSVM conferences, we invited outstanding scientists to give keynote presentations. This year, it was our pleasure to welcome Haim Brezis (Rutgers University, USA; Technion, Israel; and University of Paris VI, France), Remco Duits, (Eindhoven University, The Netherlands), Stèphane Mallat (École Polytechnique, France), and Joachim Weickert (Saarland University, Germany). Additionally, we had six review lectures on topics of broad interest, given by experts in the field: Philip Rosenau (Tel Aviv University, Israel), Jing Yuan (University of Western Ontario, Canada), Patrizio Frosini (University of Bologna, Italy), Radu Horaud (INRIA, France), Gérard Medioni (University of Southern California, USA), and Elisabetta Carlini (La Sapienza, Italy).

From the submitted papers, 24 were selected to be presented orally and 44 as posters. Over 100 people attended the conference, representing countries from all over the world, including Austria, China, France, Germany, Hong Kong, Israel, Italy, Japan, Korea, The Netherlands, Norway, Singapore, Slovakia, Switzerland, Turkey, and the USA. We would like to thank the authors for their contributions, the members of the Program Committee for their dedication and timely reviews, and to Yana Katz and Boris Princ for local arrangements and organization without which this conference would not have been possible. Finally, our special thanks to the Technion Department of Computer Science, HP Laboratories Israel, Haifa, Rafael Ltd., Israel, BBK Technologies Ltd., Israel, and the European Community's FP7 ERC/FIRST programs for their generous sponsorship.

May–June 2011

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