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Statistical Methods in Video Processing

ECCV 2004 Workshop SMVP 2004
Prague, Czech Republic, May 16, 2004
Revised Selected Papers



Springer

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Library of Congress Control Number: 2004116560

CR Subject Classification (1998): I.4, I.3, I.5, G.3, F.2.1, I.2

ISSN 0302-9743
ISBN 3-540-23989-8 Springer Berlin Heidelberg New York

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Printed in Germany

Typesetting: Camera-ready by author, data conversion by Scientific Publishing Services, Chennai, India
Printed on acid-free paper SPIN: 11363644 06/3142 5 4 3 2 1 0

Preface

The 2nd International Workshop on Statistical Methods in Video Processing, SMVP 2004, was held in Prague, Czech Republic, as an associated workshop of ECCV 2004, the 8th European Conference on Computer Vision.

A total of 30 papers were submitted to the workshop. Of these, 17 papers were accepted for presentation and included in these proceedings, following a double-blind review process. The workshop had 42 registered participants.

The focus of the meeting was on recent progress in the application of advanced statistical methods to solve computer vision tasks. The one-day scientific program covered areas of high interest in vision research, such as dense reconstruction of 3D scenes, multibody motion segmentation, 3D shape inference, errors-in-variables estimation, probabilistic tracking, information fusion, optical flow computation, learning for nonstationary video data, novelty detection in dynamic backgrounds, background modeling, grouping using feature uncertainty, and crowd segmentation from video.

We wish to thank the authors of all submitted papers for their interest in the workshop. We also wish to thank the members of our program committee and the external reviewers for their commitment of time and effort in providing valuable recommendations for each submission. We are thankful to Vaclav Hlavac, the General Chair of ECCV 2004, and to Radim Sara, for the local organization of the workshop and registration management.

We hope you will find these proceedings both inspiring and of high scientific quality.

June 2004

Dorin Comaniciu
Kenichi Kanatani
Rudolf Mester
David Suter

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