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Gerhard Goos, Juris Hartmanis, and Jan van Leeuwen

Dorin Comaniciu   Kenichi Kanatani
Rudolf Mester   David Suter (Eds.)

Statistical Methods in Video Processing

ECCV 2004 Workshop SMVP 2004
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Revised Selected Papers

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Volume Editors

Dorin Comaniciu
Siemens Corporate Research
Integrated Data Systems Department
755 College Road East, Princeton, NJ 08540, USA
E-mail: dorin.comaniciu@siemens.com

Kenichi Kanatani
Okayama University
Department of Information Technology
Okayama 700-8530, Japan
E-mail: kanatani@suri.it.okayama-u.ac.jp

Rudolf Mester
Johann-Wolfgang-Goethe Universität Frankfurt
Institute for Applied Physics
Robert-Mayer-Str. 2–4, 60054 Frankfurt/Main, Germany
E-mail: mester@iap.uni-frankfurt.de

David Suter
Monash University
Department of Electrical and Computer Systems Engineering
P.O. Box 35, Clayton 3800, VIC, Australia
E-mail: d.suter@eng.monash.edu.au

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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