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C.V. Jawahar · Shiguang Shan (Eds.)

Computer Vision – ACCV 2014 Workshops

Singapore, Singapore, November 1–2, 2014
Revised Selected Papers, Part III

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Preface

The three-volume set of LNCS contains the carefully reviewed and selected papers presented at the 15 workshops that were held in conjunction with the 12th Asian Conference on Computer Vision, ACCV 2014, in Singapore, during November 1–2, 2014. These workshops were carefully selected from a large number of proposals received from almost all the continents.

This series contains 153 papers selected from 307 papers submitted to all the 15 workshops as listed below. A list of organizers for each of these workshops is provided separately.

1. Human Gait and Action Analysis in the Wild: Challenges and Applications
2. The Second International Workshop on Big Data in 3D Computer Vision
3. Deep Learning on Visual Data
4. Workshop on Scene Understanding for Autonomous Systems
5. RoLoD: Robust Local Descriptors for Computer Vision
6. Emerging Topics In Image Restoration and Enhancement
7. The First International Workshop on Robust Reading
8. The Second Workshop on User-Centred Computer Vision
9. International Workshop on Video Segmentation in Computer Vision
10. My Car Has Eyes - Intelligent Vehicles with Vision Technology
11. Feature and Similarity Learning for Computer Vision
12. The Third ACCV Workshop on e-Heritage
13. The Third International Workshop on Intelligent Mobile and Egocentric Vision
14. Computer Vision for Affective Computing
15. Workshop on Human Identification for Surveillance

Workshops in conjunction with ACCV have been emerging as a forum to present focused and current research in specific areas of interest within the broad scope of ACCV. This year, the workshops covered diverse research topics including both conventional ones (such as robust local descriptor) and newly emerging ones (such as deep feature learning). Besides direct submissions to the workshops, submissions rejected by the main conference were provided the opportunity to co-submit to the workshops, following the policy of previous ACCVs.

We would like to thank many people for their efforts in making this publication possible. General Chairs, Publication Chairs, and Local Organizing Chairs helped a lot in smoothly organizing the workshops and coming out with this proceedings. Reviewers of the individual workshops did an excellent job of selecting quality papers for the final presentation. They deserve credit for the excellent quality of the papers in this proceedings.

It is our pleasure to place these volumes in front of you..

Organization

ACCV 2014 Workshop Organizers

1. Human Gait and Action Analysis in the Wild: Challenges and Applications

Mark Nixon	University of Southampton, UK
Liang Wang	Chinese Academy of Sciences, China
Jian Zhang	University of Technology, Sydney, Australia
Qiang Wu	University of Technology, Sydney, Australia
Zhaoxiang Zhang	Beihang University, China
Yasushi Makihara	Osaka University, Japan

2. Second International Workshop on Big Data in 3D Computer Vision

Jian Zhang	University of Technology, Sydney, Australia; National ICT Australia, Australia
Mohammed Bennamoun	University of Western Australia, Australia
Fatih Porikli	NICTA, Australia
Ping Tan	National University of Singapore, Singapore
Hongdong Li	Australian National University, Australia
Lixin Fan	Nokia Research Centre, Finland
Qiang Wu	University of Technology, Sydney, Australia

3. Deep Learning on Visual Data

Wanli Ouyang	The Chinese University of Hong Kong, China
Xiaogang Wang	The Chinese University of Hong Kong, China
Kai Yu	Baidu, China
Quoc Le	Google, USA
Shuicheng Yan	National University of Singapore, Singapore

4. Workshop on Scene Understanding for Autonomous Systems (SUAS)

Sebastian Ramos	CVC, Universitat Autònoma de Barcelona, Spain
Raquel Urtasun	University of Toronto, Canada
Antonio Torralba	Massachusetts Institute of Technology, USA

Nick Barnes	NICTA and Australian National University, Australia
MarkusENZweiler	Daimler AG, Germany
David Vazquez	CVC, Universitat Autònoma de Barcelona, Spain
Antonio M. Lopez	CVC, Universitat Autònoma de Barcelona, Spain

5. RoLoD: Robust Local Descriptors for Computer Vision

Jie Chen	CMV, University of Oulu, Finland
Zhen Lei	NLPR, Chinese Academy of Sciences, China
Li Liu	VIP, University of Waterloo, Canada
Guoying Zhao	CMV, University of Oulu, Finland
Matti Pietikäinen	CMV, University of Oulu, Finland

6. Emerging Topics In Image Restoration and Enhancement

Zhe Hu	University of California Merced, USA
Oliver Cossairt	Northwestern University, USA
Yu-Wing Tai	KAIST, Korea
Sunghyun Cho	Samsung Electronics, Korea
Chih-Yuan Yang	University of California Merced, USA
Robby Tan	SIM University, Singapore

7. First International Workshop on Robust Reading

Masakazu Iwamura	Osaka Prefecture University, Japan
Dimosthenis Karatzas	CVC, Universitat Autònoma de Barcelona, Spain
Faisal Shafait	University of Western Australia, Australia
Pramod Sankar Kompalli	Xerox Research India, India

8. Second Workshop on User-Centred Computer Vision (UCCV 2014)

Gregor Miller	University of British Columbia, Canada
Darren Cosker	University of Bath, UK
Kenji Mase	Nagoya University, Japan

9. International Workshop on Video Segmentation in Computer Vision

Michael Ying Yang	Leibniz University Hannover, Germany
Jason Corso	University of Michigan, Ann Arbor, USA

10. My Car Has Eyes - Intelligent Vehicles with Vision Technology

Xue Mei	Toyota Research Institute North America, Ann Arbor, USA
Andreas Geiger	Max Planck Institute for Intelligent Systems, Germany
Michael James	Toyota Research Institute North America, Ann Arbor, USA
Yi-Ping Hung	National Taiwan University, Taiwan
Fatih Porikli	Australian National University, Australia
Danil Prokhorov	Toyota Research Institute North America, Ann Arbor, USA

11. Feature and Similarity Learning for Computer Vision

Jiwen Lu	Advanced Digital Sciences Center, Singapore
Shenghua Gao	ShanghaiTech University, China
Gang Wang	Nanyang Technological University, Singapore
Weihong Deng	Beijing University of Posts and Telecommunications, China

12. Third ACCV Workshop on e-Heritage

Takeshi Oishi	University of Tokyo, Japan
Ioannis Pitas	Aristotle University of Thessaloniki, Greece
Bo Zheng	University of Tokyo, Japan
Manjunath Joshi	DA-IICT, Gandhinagar, India
Anupama Mallik	Indian Institute of Technology, Delhi, India

13. Third International Workshop on Intelligent Mobile and Egocentric Vision (IMEV2014)

Chu-Song Chen	Academia Sinica, Taiwan, China
Mohan Kankanhalli	National University of Singapore, Singapore
Shang-Hong Lai	National Tsing Hua University, Taiwan, China
Joo Hwee Lim	Institute for Infocomm Research, Singapore
Vijay Chandrasekhar	Institute for Infocomm Research, Singapore
Liyuan Li	Institute for Infocomm Research, Singapore
Yu-Chiang Frank Wang	Academia Sinica, Taiwan, China
Shuicheng Yan	National University of Singapore, Singapore

14. Computer Vision for Affective Computing (CV4AC)

Abhinav Dhall	University of Canberra/Australian National University, Australia
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Roland Goecke	University of Canberra/Australian National University, Australia
Nicu Sebe	University of Trento, Italy

15. Workshop on Human Identification for Surveillance (HIS)

Tao Xiang	Queen Mary University of London, UK
Nalini K. Ratha	IBM Research, USA
Venu Govindaraju	University at Buffalo, USA
Meina Kan	Chinese Academy of Sciences, China
Wei-Shi Zheng	Sun Yat-sen University, China
Marco Cristani	University of Verona, Italy

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