Leonid Karlinsky
Tomer Michaeli
Ko Nishino (Eds.)

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# Computer Vision – ECCV 2022 Workshops

Tel Aviv, Israel, October 23–27, 2022
Proceedings, Part VII



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# Computer Vision – ECCV 2022 Workshops

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# Foreword

Organizing the European Conference on Computer Vision (ECCV 2022) in Tel-Aviv during a global pandemic was no easy feat. The uncertainty level was extremely high, and decisions had to be postponed to the last minute. Still, we managed to plan things just in time for ECCV 2022 to be held in person. Participation in physical events is crucial to stimulating collaborations and nurturing the culture of the Computer Vision community.

There were many people who worked hard to ensure attendees enjoyed the best science at the 17th edition of ECCV. We are grateful to the Program Chairs Gabriel Brostow and Tal Hassner, who went above and beyond to ensure the ECCV reviewing process ran smoothly. The scientific program included dozens of workshops and tutorials in addition to the main conference and we would like to thank Leonid Karlinsky and Tomer Michaeli for their hard work. Finally, special thanks to the web chairs Lorenzo Baraldi and Kosta Derpanis, who put in extra hours to transfer information fast and efficiently to the ECCV community.

We would like to express gratitude to our generous sponsors and the Industry Chairs Dimosthenis Karatzas and Chen Sagiv, who oversaw industry relations and proposed new ways for academia-industry collaboration and technology transfer. It's great to see so much industrial interest in what we're doing!

Authors' draft versions of the papers appeared online with open access on both the Computer Vision Foundation (CVF) and the European Computer Vision Association (ECVA) websites as with previous ECCVs. Springer, the publisher of the proceedings, has arranged for archival publication. The final version of the papers is hosted by SpringerLink, with active references and supplementary materials. It benefits all potential readers that we offer both a free and citeable version for all researchers, as well as an authoritative, citeable version for SpringerLink readers. Our thanks go to Ronan Nugent from Springer, who helped us negotiate this agreement. Last but not least, we wish to thank Eric Mortensen, our publication chair, whose expertise made the process smooth.

October 2022

Rita Cucchiara
Jiří Matas
Amnon Shashua
Lihi Zelnik-Manor

# Preface

Welcome to the workshop proceedings of the 17th European Conference on Computer Vision (ECCV 2022). This year, the main ECCV event was accompanied by 60 workshops, scheduled between October 23–24, 2022. We received 103 workshop proposals on diverse computer vision topics and unfortunately had to decline many valuable proposals because of space limitations. We strove to achieve a balance between topics, as well as between established and new series. Due to the uncertainty associated with the COVID-19 pandemic around the proposal submission deadline, we allowed two workshop formats: hybrid and purely online. Some proposers switched their preferred format as we drew near the conference dates. The final program included 30 hybrid workshops and 30 purely online workshops. Not all workshops published their papers in the ECCV workshop proceedings, or had papers at all. These volumes collect the edited papers from 38 out of the 60 workshops. We sincerely thank the ECCV general chairs for trusting us with the responsibility for the workshops, the workshop organizers for their hard work in putting together exciting programs, and the workshop presenters and authors for contributing to ECCV.

October 2022

Tomer Michaeli
Leonid Karlinsky
Ko Nishino

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**W03 - Adversarial Robustness in the Real World**

| | |
|---|---|
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**W04 - Autonomous Vehicle Vision**

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**W05 - Learning With Limited and Imperfect Data**

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| Ming-Ming Cheng | Nankai University, China |

**W06 - Advances in Image Manipulation**

| | |
|---|---|
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| Ren Yang | ETH Zurich, Switzerland |
| Marcos V. Conde | University of Würzburg, Germany |
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**W07 - Medical Computer Vision**

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|---|---|
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**W08 - Computer Vision for Metaverse**

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**W09 - Self-Supervised Learning: What Is Next?**

| | |
|---|---|
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| Diane Larlus | Naver Labs Europe, France |
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**W10 - Self-Supervised Learning for Next-Generation Industry-Level Autonomous Driving**

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|---|---|
| Fisher Yu | ETH Zürich, Switzerland |
| Wei Zhang | Huawei Noah's Ark Lab, China |
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| Ping Luo | The University of Hong Kong, China |

**W11 - ISIC Skin Image Analysis**

| | |
|---|---|
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| Catarina Barata | Instituto Superior Técnico, Portugal |
| Allan Halpern | Memorial Sloan Kettering Cancer Center, USA |
| Philipp Tschandl | Medical University of Vienna, Austria |
| Marc Combalia | Hospital Clínic of Barcelona, Spain |
| Yuan Liu | Google Health, USA |

**W12 - Cross-Modal Human-Robot Interaction**

| | |
|---|---|
| Fengda Zhu | Monash University, Australia |
| Yi Zhu | Huawei Noah's Ark Lab, China |
| Xiaodan Liang | Sun Yat-sen University, China |
| Liwei Wang | The Chinese University of Hong Kong, China |
| Xiaojun Chang | University of Technology Sydney, Australia |
| Nicu Sebe | University of Trento, Italy |

**W13 - Text in Everything**

| | |
|---|---|
| Ron Litman | Amazon AI Labs, Israel |
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| Shai Mazor | Amazon AI Labs, Israel |
| Hadar Averbuch-Elor | Cornell University, USA |
| Dimosthenis Karatzas | Universitat Autònoma de Barcelona, Spain |
| R. Manmatha | Amazon AI Labs, USA |

**W14 - BioImage Computing**

| | |
|---|---|
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| Dagmar Kainmueller | Max Delbrück Center, Germany |
| Florian Jug | Human Technopole, Italy |
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| | |
|---|---|
| Peter Bajcsy | National Institute of Standards and Technology, USA |
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**W15 - Visual Object-Oriented Learning Meets Interaction: Discovery, Representations, and Applications**

| | |
|---|---|
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| Yanchao Yang | Stanford University, USA |
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**W16 - AI for Creative Video Editing and Understanding**

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| Bernard Ghanem | King Abdullah University of Science and Technology, Saudi Arabia |

**W17 - Visual Inductive Priors for Data-Efficient Deep Learning**

| | |
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| Robert-Jan Bruintjes | Delft University of Technology, The Netherlands |
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| Osman Semih Kayhan | Bosch Security Systems, The Netherlands |
| Marcos Baptista Ríos | Alice Biometrics, Spain |
| Lorenzo Brigato | Sapienza University of Rome, Italy |

**W18 - Mobile Intelligent Photography and Imaging**

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|---|---|
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| Shangchen Zhou | Nanyang Technological University, Singapore |

| | |
|---|---|
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| Jun Jiang | SenseBrain Research, USA |
| Wenxiu Sun | SenseTime Group Limited, China |
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| Jinwei Gu | SenseBrain Research, USA |

**W19 - People Analysis: From Face, Body and Fashion to 3D Virtual Avatars**

| | |
|---|---|
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**W20 - Safe Artificial Intelligence for Automated Driving**

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**W21 - Real-World Surveillance: Applications and Challenges**

| | |
|---|---|
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| | |
|---|---|
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**W22 - Affective Behavior Analysis In-the-Wild**

| | |
|---|---|
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| Stefanos Zafeiriou | Imperial College London, UK |
| Elnar Hajiyev | Realeyes, UK |
| Viktoriia Sharmanska | University of Sussex, UK |

**W23 - Visual Perception for Navigation in Human Environments: The JackRabbot Human Body Pose Dataset and Benchmark**

| | |
|---|---|
| Hamid Rezatofighi | Monash University, Australia |
| Edward Vendrow | Stanford University, USA |
| Ian Reid | University of Adelaide, Australia |
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**W24 - Distributed Smart Cameras**

| | |
|---|---|
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| Rita Pucci | University of Udine, Italy |
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**W25 - Causality in Vision**

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|---|---|
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**W26 - In-Vehicle Sensing and Monitorization**

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| Paula Viana | INESC TEC and Polytechnic of Porto, Portugal |
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**W27 - Assistive Computer Vision and Robotics**

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**W28 - Computational Aspects of Deep Learning**

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|---|---|
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| Giuseppe Fiameni | NVIDIA, Italy |

**W29 - Computer Vision for Civil and Infrastructure Engineering**

| | |
|---|---|
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| Mingzhu Wang | Loughborough University, UK |
| Ajmal Mian | University of Western Australia, Australia |
| Thomas B. Moeslund | Aalborg University, Denmark |

**W30 - AI-Enabled Medical Image Analysis: Digital Pathology and Radiology/COVID-19**

| | |
|---|---|
| Jaime S. Cardoso | INESC TEC and Universidade do Porto, Portugal |
| Stefanos Kollias | National Technical University of Athens, Greece |
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**W31 - Compositional and Multimodal Perception**

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| Li Fei-Fei | Stanford University, USA |

**W32 - Uncertainty Quantification for Computer Vision**

| | |
|---|---|
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| Arno Solin | Aalto University, Finland |
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| Neill D. F. Campbell | University of Bath, UK |

**W33 - Recovering 6D Object Pose**

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| Martin Sundermeyer | DLR German Aerospace Center, Germany |
| Tomáš Hodaň | Reality Labs at Meta, USA |
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| Gu Wang | Tsinghua University, China |
| Lingni Ma | Reality Labs at Meta, USA |
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| Bertram Drost | MVTec, Germany |
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| Carsten Steger | Technical University of Munich and MVTec, Germany |
| Vincent Lepetit | École des Ponts ParisTech, France, and TU Graz, Austria |
| Jiří Matas | Czech Technical University in Prague, Czech Republic |

**W34 - Drawings and Abstract Imagery: Representation and Analysis**

| | |
|---|---|
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| Kushal Kafle | Adobe Research, USA |
| Michal Kucer | Los Alamos National Laboratory, USA |
| Pradyumna Reddy | University College London, UK |
| Cory Scott | University of California, Irvine, USA |

**W35 - Sign Language Understanding**

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|---|---|
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| Gül Varol | École des Ponts ParisTech, France |
| Hannah Bull | University of Paris-Saclay, France |
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| Manuel Vázquez Enríquez | Universidade de Vigo, Spain |

**W36 - A Challenge for Out-of-Distribution Generalization in Computer Vision**

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|---|---|
| Adam Kortylewski | Max Planck Institute for Informatics, Germany |
| Bingchen Zhao | University of Edinburgh, UK |
| Jiahao Wang | Max Planck Institute for Informatics, Germany |
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| Oliver Zendel | Austrian Institute of Technology, Austria |
| Dawn Song | University of California, Berkeley, USA |
| Alan Yuille | Johns Hopkins University, USA |

**W37 - Vision With Biased or Scarce Data**

| | |
|---|---|
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| Ziyan Wu | United Imaging Intelligence, USA |

**W38 - Visual Object Tracking Challenge**

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| Michael Felsberg | Linköping University, Sweden |
| Martin Danelljan | ETH Zurich, Switzerland |

# Contents – Part VII

**W29 - Computer Vision for Civil and Infrastructure Engineering**