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# Computer Vision – ECCV 2010

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Proceedings, Part II

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## Preface

The 2010 edition of the European Conference on Computer Vision was held in Heraklion, Crete. The call for papers attracted an absolute record of 1,174 submissions. We describe here the selection of the accepted papers:

- Thirty-eight area chairs were selected coming from Europe (18), USA and Canada (16), and Asia (4). Their selection was based on the following criteria: (1) Researchers who had served at least two times as Area Chairs within the past two years at major vision conferences were excluded; (2) Researchers who served as Area Chairs at the 2010 Computer Vision and Pattern Recognition were also excluded (exception: ECCV 2012 Program Chairs); (3) Minimization of overlap introduced by Area Chairs being former student and advisors; (4) 20% of the Area Chairs had never served before in a major conference; (5) The Area Chair selection process made all possible efforts to achieve a reasonable geographic distribution between countries, thematic areas and trends in computer vision.
- Each Area Chair was assigned by the Program Chairs between 28–32 papers. Based on paper content, the Area Chair recommended up to seven potential reviewers per paper. Such assignment was made using all reviewers in the database including the conflicting ones. The Program Chairs manually entered the missing conflict domains of approximately 300 reviewers. Based on the recommendation of the Area Chairs, three reviewers were selected per paper (with at least one being of the top three suggestions), with 99.7% being the recommendations of the Area Chairs. When this was not possible, senior reviewers were assigned to these papers by the Program Chairs, with the consent of the Area Chairs. Upon completion of this process there were 653 active reviewers in the system.
- Each reviewer got a maximum load of eight reviews—in a few cases we had nine papers when re-assignments were made manually because of hidden conflicts. Upon the completion of the reviews deadline, 38 reviews were missing. The Program Chairs proceeded with fast re-assignment of these papers to senior reviewers. Prior to the deadline of submitting the rebuttal by

the authors, all papers had three reviews. The distribution of the reviews was the following: 100 papers with an average score of weak accept and higher, 125 papers with an average score toward weak accept, 425 papers with an average score around borderline.

- For papers with strong consensus among reviewers, we introduced a procedure to handle potential overwriting of the recommendation by the Area Chair. In particular for all papers with weak accept and higher or with weak reject and lower, the Area Chair should have sought for an additional reviewer prior to the Area Chair meeting. The decision of the paper could have been changed if the additional reviewer was supporting the recommendation of the Area Chair, and the Area Chair was able to convince his/her group of Area Chairs of that decision.
- The discussion phase between the Area Chair and the reviewers was initiated once the review became available. The Area Chairs had to provide their identity to the reviewers. The discussion remained open until the Area Chair meeting that was held in Paris, June 5–6. Each Area Chair was paired to a buddy and the decisions for all papers were made jointly, or when needed using the opinion of other Area Chairs. The pairing was done considering conflicts, thematic proximity, and when possible geographic diversity. The Area Chairs were responsible for taking decisions on their papers. Prior to the Area Chair meeting, 92% of the consolidation reports and the decision suggestions had been made by the Area Chairs. These recommendations were used as a basis for the final decisions.
- Orals were discussed in groups of Area Chairs. Four groups were formed, with no direct conflict between paper conflicts and the participating Area Chairs. The Area Chair recommending a paper had to present the paper to the whole group and explain why such a contribution is worth being published as an oral. In most of the cases consensus was reached in the group, while in the cases where discrepancies existed between the Area Chairs' views, the decision was taken according to the majority of opinions.
- The final outcome of the Area Chair meeting, was 38 papers accepted for an oral presentation and 284 for poster. The percentage ratios of submissions/ acceptance per area are the following:

Thematic area	# submitted	% over submitted	# accepted	% over accepted	% acceptance in area
Object and Scene Recognition	192	16.4%	66	20.3%	34.4%
Segmentation and Grouping	129	11.0%	28	8.6%	21.7%
Face, Gesture, Biometrics	125	10.6%	32	9.8%	25.6%
Motion and Tracking	119	10.1%	27	8.3%	22.7%
Statistical Models and Visual Learning	101	8.6%	30	9.2%	29.7%
Matching, Registration, Alignment	90	7.7%	21	6.5%	23.3%
Computational Imaging	74	6.3%	24	7.4%	32.4%
Multi-view Geometry	67	5.7%	24	7.4%	35.8%
Image Features	66	5.6%	17	5.2%	25.8%
Video and Event Characterization	62	5.3%	14	4.3%	22.6%
Shape Representation and Recognition	48	4.1%	19	5.8%	39.6%
Stereo	38	3.2%	4	1.2%	10.5%
Reflectance, Illumination, Color	37	3.2%	14	4.3%	37.8%
Medical Image Analysis	26	2.2%	5	1.5%	19.2%

- We received 14 complaints/reconsideration requests. All of them were sent to the Area Chairs who handled the papers. Based on the reviewers' arguments and the reaction of the Area Chair, three papers were accepted—as posters—on top of the 322 at the Area Chair meeting, bringing the total number of accepted papers to 325 or **27.6%**. The selection rate for the 38 orals was **3.2%**. The acceptance rate for the papers submitted by the group of Area Chairs was 39%.
- Award nominations were proposed by the Area and Program Chairs based on the reviews and the consolidation report. An external award committee was formed comprising David Fleet, Luc Van Gool, Bernt Schiele, Alan Yuille, Ramin Zabih. Additional reviews were considered for the nominated papers and the decision on the paper awards was made by the award committee. We thank the Area Chairs, Reviewers, Award Committee Members, and the General Chairs for their hard work and we gratefully acknowledge Microsoft Research for accommodating the ECCV needs by generously providing the CMT Conference Management Toolkit. We hope you enjoy the proceedings.

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