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Pattern Recognition

Joint 34th DAGM and 36th OAGM Symposium
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Proceedings



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Preface

On behalf of the Organizing Committee, we would like to welcome you to the proceedings of the joint conference of the DAGM and OAGM that was held in Graz. It was the 34th symposium of the German Association for Pattern Recognition and the 36th OAGM conference. This was, after 1984, 1994, and 2005, already the fourth joint meeting between these two societies, showing their close relationship with each other.

The technical program covered all aspects of computer vision and pattern recognition. The result is reflected in these proceedings, which contain the papers presented at DAGM-OAGM 2012. Our call for papers resulted in 98 submissions from institutions in 19 countries. Each paper underwent a rigorous reviewing process and was assigned to at least three Program Committee members for review. The reviewing phase was followed by a discussion phase among the respective Program Committee members in order to suggest papers for acceptance. The final decision was taken during a Program Committee meeting held in Graz based on all reviews, the discussion results and, if necessary, additional reviewing. This year we introduced a “handling reviewer” for each paper, who summarized the discussion in a consolidation report that was also submitted to the authors. On the basis of this rigorous process we selected a total of 50 papers, corresponding to an acceptance rate of 51%. Out of all accepted papers, 27 were chosen for oral and 23 for poster presentation. Out of the 50 accepted papers, 32 are from Germany, 7 from Austria, 9 from the rest of Europe and 2 from overseas. All accepted papers are published in these proceedings and were given the same number of pages. We would like to thank all members of the Program Committee as well as the external reviewers for their valuable and highly appreciated contribution to the community. We would also like to extend our thanks to all authors of submitted papers; without their contribution we would not have been able to assemble such a strong program.

The technical program was complemented by two workshops: one on “Computer Vision in Applications” and the other on “New Challenges in Neural Computation.” The program contained two tutorials: one on “Random Forests in Computer Vision” held by Christian Leistner, the other on “Submodularity in Machine Learning and Computer Vision,” held by Andreas Krause and Stefanie Jegelka.

In addition to the presentations from the technical program, we were also proud to have three internationally renowned invited speakers at the conference:

- Francis Bach (INRIA): Large-Scale Convex Optimization for Machine Learning
- Jiri Matas (CTU Prague): Tracking: An Old Dog with Many New Tricks
- Antonio Torralba (MIT): Understanding Visual Scenes

We again organized the Young Researchers Forum at DAGM 2012 to promote scientific interaction between excellent young researchers and our community. This year the contributions of four students were accepted, who presented their bachelor or master thesis work during the conference and interacted with our community. Their participation was kindly supported by Daimler.

We would like to extend our sincere thanks to everyone who helped in making DAGM-OAGM 2012 possible. We are indebted to Renate Hönel and Karin Maier for their help with all organizational matters, and Christian Reinbacher for coordinating the local arrangements.

We would also like to sincerely thank all our sponsors for their financial support, which helped to keep the registration fees as low as possible, especially those of the student attendees. We appreciate their donations to our community, which values and recognizes the importance of these contributions to our field.

It was an honor for us to host the joint DAGM-OAGM meeting this year, and we look forward to next year's DAGM meeting in Saarbrücken.

August 2012

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Awards 2011

Deutscher Mustererkennungspreis

The “Deutscher Mustererkennungspreis 2011” was awarded to:

Matthias Hein

for his outstanding work in pattern recognition, especially in the area of “*Graph-based learning methods, in particular manifold learning and nonlinear eigenproblems.*”

DAGM Prizes

The main prize for DAGM 2011 was awarded to:

K. Köser, C. Zach, and M. Pollefeys:

“Dense 3D Reconstruction of Symmetric Scenes From a Single Image”

Further DAGM prizes for 2011 were awarded to:

H. C. Burger and S. Harmeling:

“Improving Denoising Algorithms via a Multi-Scale Meta-Procedure”

C. Keller, C. Hermes, and D. M. Gavrilu:

“Will the Pedestrian Cross?”

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