

# Preface

It was a pleasure to organize the 37th German Conference on Pattern Recognition (GCPR), which was held in Aachen during October 7–10, 2015. This time, GCPR was co-located with the 20th International Symposium on Vision, Modeling and Visualization (VMV).

For GCPR 2015, we received 108 submissions from institutions of 28 countries. Each paper underwent a rigorous double-blind reviewing procedure by at least three Program Committee (PC) members, sometimes with support from additional experts. Afterward, one of the involved PC members served as moderator for a discussion among the reviewers and prepared a consolidation report that was also forwarded to the authors in addition to the reviews. The final decision was made during a PC meeting held in Aachen based on all reviews, discussions, and, if necessary, additional reviewing. As a result of this rigorous reviewing procedure, 45 of the 108 submissions were accepted, which corresponds to an acceptance rate of 42 %. Finally, these accepted papers were presented either as oral talks (18) or posters (27) in a single-track program. All accepted papers are published in these proceedings and cover the entire spectrum of pattern recognition, machine learning, image processing, and computer vision. Following the tradition of this conference series, GCPR 2015 also featured a Young Researchers Forum to promote scientific interaction between excellent young researchers and our community. From eight submissions, five works were selected for a poster presentation and one was additionally included as a short paper in the proceedings.

In addition, we were very happy to have three internationally renowned researchers as our invited speakers to present their work in three fascinating areas: Andrew Blake (Microsoft Research Cambridge, UK), Niloy J. Mitra (University College London, UK), and Max Welling (University of Amsterdam, The Netherlands and University of California Irvine, USA). The technical program was complemented by one workshop and one tutorial. The Workshop on New Challenges in Neural Computation (NC2) was organized by Barbara Hammer (Bielefeld University), Thomas Martinetz (University of Lübeck), and Thomas Villmann (University of Applied Sciences Mittweida). The Tutorial on Causality was held by Jonas Peters (Max Planck Institute for Intelligent Systems).

The success of GCPR 2015 would not have been possible without the support of many institutions and people. First of all, we would like to thank all authors of the submitted papers and the invited speakers for their contributions. All PC members and additional reviewers deserve great thanks for their timely and competent reviews. We are grateful to our sponsors for their support as well. Finally, special thanks go to the

Proceedings and Website Chairs and the Local Organizing Committee. We would like to thank Springer for giving us the opportunity of continuing to publish GCPR proceedings in the LNCS series.

October 2015

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<http://www.springer.com/978-3-319-24946-9>

Pattern Recognition

37th German Conference, GCPR 2015, Aachen,  
Germany, October 7-10, 2015, Proceedings

Gall, J.; Gehler, P.; Leibe, B. (Eds.)

2015, XVIII, 564 p. 208 illus. in color., Softcover

ISBN: 978-3-319-24946-9