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Dieter Kratsch · Ioan Todinca (Eds.)

# Graph-Theoretic Concepts in Computer Science

40th International Workshop, WG 2014  
Nouan-le-Fuzelier, France, June 25–27, 2014  
Revised Selected Papers

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# Preface

The 40th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2014) took place in Le Domaine de Chalés, near Orléans in France, during June 25–27, 2014.

The WG conference series has a long tradition. Since 1975, it has taken place twenty-two times in Germany, four times in The Netherlands, three times in France, twice in Austria and the Czech Republic, as well as once in Italy, Slovakia, Switzerland, Norway, Greece, Israel, and the UK.

The WG conferences aim to connect theory and practice by demonstrating how graph-theoretic concepts can be applied to various areas of computer science and by extracting new graph problems from applications. Their goal is to present new research results and to identify and explore directions of future research.

WG 2014 received 80 submissions. Each submission was carefully reviewed by at least three members of the Program Committee. The Program Committee accepted 32 papers for presentation at WG 2014. The WG 2014 Student Paper Award was attributed to Felix Joos for his paper on “A Characterization of Mixed Unit Interval Graphs.” Furthermore, three submissions were selected by the Program Committee for a possible publication in a special section of *Algorithmica*. The program also included two inspiring invited talks: Reinhard Diestel (Universität Hamburg, Germany) presented “A unified duality theorem for width parameters in graphs and matroids” and Pierre Fraigniaud (LIAFA Paris, France) gave a talk on “Local distributed computing.”

We would like to thank the authors of the papers submitted for possible presentation at WG 2014, the speakers of the thirty-two talks and the speakers of the two invited talks, the members of the Program Committee, and the external reviewers. Special thanks to the Local Organizing Committee from the LIFO of the Université d’Orléans; without their performance WG 2014 could not have been such a success.

We are grateful to our sponsors, the Région Centre, the Université d’Orléans, the LIFO (Laboratory of Fundamental Informatics, Orléans), and the CNRS for their financial support.

August 2014

Dieter Kratsch  
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