



Preface

Research in Graph Theory and Algorithms on Graphs has been increasing in the last decade. In particular, the study of problems related to cliques in graphs has been one of the most trending topics.

This volume contains some of the works presented in the 5th Latin-American Workshop on Cliques in Graphs, which was held in Buenos Aires, November 5-7, 2012. The first Latin American Workshop on Cliques in Graphs was held in Rio de Janeiro in 2002, and was born in honor to Jayme Szwarcfter in his 60th birthday. After ten years we had the great pleasure to celebrate the 10th anniversary of the workshop, along with Jayme’s 70th birthday. In its origins, the workshop was meant to foster interaction between the Latin-American graph theory and combinatorics researchers, whose interests include cliques, clique graphs, the behaviour of the clique operator, and related issues. In these ten years the community has grown and the workshop has become not only a place for exchanging ideas on cliques, but a moment to strengthen the relationships between its community members as well as to start new relations.

Besides Latin America, in this edition there were special invited speakers from Canada and Germany. There were 3 plenary talks and 39 lectures. Some of these works gave rise to papers that have been included in this volume.

We want to thank the Steering Committee for trusting us the organization of this edition of the workshop, the Program Committee for their help in organizing the sessions, the invited speakers for their enthusiastic participation, and all the authors for their contributions. We also thank the University of Buenos Aires for the institutional support. Finally, we would like to thank the Editor-in-Chief of *Matemática Contemporânea*, for opening this important forum to the participants of the Latin-American Workshop.

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