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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Preface -- Foreword -- Yago Antolín: Tits alternatives for graph products -- Goulnara Arzhantseva: Asymptotic approximations of finitely generated groups -- Oleg Bogopolski and Olga Maslakova: An efficient algorithm for finding a basis of the fixed point subgroup of an automorphism of a free group -- José Burillo and Eric López Platón: Metric properties and distortion in nilpotent groups -- Jack Button, Maurice Chiodo, and Mariano Zeron-Medina Laris: Coset intersection graphs, and transversals as generating sets for finitely generated groups -- Jordi Delgado: Whitehead problems for words in $Z_m \times F_n$ -- Gustavo A. Fernández-Alcober, Olivier Siegenthaler, and Amaia Zugadi-Reizabal: Hausdorff dimension and the abelian group structure of some groups acting on the p-adic tree -- Ariadna Fossas: Thompson's group T, undistorted free groups and automorphisms of the flip graph -- Juan González-Meneses: Geometric techniques in braid groups -- Vincent Guirardel and Gilbert Levitt: Induced automorphisms -- Fedaa Ibrahim and Martin Lustig: Dual automorphisms of free groups -- Thomas Koberda and Johanna Mangahas: Effective algebraic detection of the Nielsen-Thurston classification of mapping classes -- Martin Lustig: Tree-irreducible automorphisms of free groups -- Luis Paris: Presentations for the mapping class groups of nonorientable surfaces

-- Catherine Pfaff: Ideal Whitehead graphs in  $\text{Out}(F_r)$  -- Paul Schupp: Reflections on computer experiments with automorphisms of free groups -- Enric Ventura: Orbit decidability, applications and variations.

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## Sommario/riassunto

This volume features seventeen extended conference abstracts corresponding to selected talks given by participants at the CRM research program "Automorphisms of Free Groups: Algorithms, Geometry and Dynamics", which took place at the Centre de Recerca Matemàtica in Barcelona in fall 2012. Most of them are short articles giving preliminary presentations of new results not yet published in regular research journals. The articles are the result from a direct collaboration among active researchers in the area after working in a dynamic and productive atmosphere. The book is intended for established researchers in the area of Group Theory, as well as for PhD and postdoc students who wish to learn more about the latest advances in this active area of research.

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