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Preface

The 31st British Combinatorial Conference takes place at Cardiff University in Wales, from Monday 6th to Friday 10th of July 2026. The British Combinatorial Committee invited nine distinguished combinatorialists to give survey lectures in their areas of expertise. This volume contains the survey articles on which eight of these lectures are based. We hope this collection of surveys will be a valuable resource to bring researchers and graduate students up-to-date with the latest developments in some key areas of combinatorics and graph theory.

In compiling this volume, we are grateful to the authors for preparing their survey articles accurately and professionally, and to the referees for their careful reading of the manuscripts and constructive feedback. We would also like to thank Holly Paveling and Anna Scriven at Cambridge University Press for their assistance through different stages of preparing and editing this volume. Finally, we thank the editors of previous volumes of *Surveys in Combinatorics* and the British Combinatorial Committee for helpful guidance.

The 31st British Combinatorial Conference is organised in partnership with the Heilbronn Institute for Mathematical Research through the UKRI/EPSRC Additional Funding Programme for Mathematical Sciences, the Institute of Combinatorics and its Applications, the Combinatorics Consortium, the London Mathematical Society, Cardiff University, and the British Combinatorial Committee. We thank each of these organisations for their involvement and support.

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