

FOREWORD

This issue of *Acta Mathematica Hungarica* is the proceedings volume of the international conference *Discrete Geometry Fest 2017*, which took place at the Alfréd Rényi Institute of Mathematics of the Hungarian Academy of Sciences in Budapest, Hungary, on May 15–19, 2017. The conference was co-organized by the Bolyai (Mathematics) Institute of the University of Szeged and the Rényi Institute. The organizers were Károly J. Böröczky (Rényi Institute, CEU and ELTE, Hungary), Ferenc Fodor (University of Szeged, Hungary and University of Calgary, Canada), Włodzimierz Kuperberg (Auburn University, U.S.A.), and Viktor Víg (University of Szeged, Hungary). Its scope covered the most recent advances in discrete geometry and the theory of convex bodies and polytopes. The meeting was attended by over seventy participants who delivered twenty-five forty-minute invited talks and fifteen twenty-minute contributed talks in five days. This proceedings volume contains the papers of the invited speakers of the conference on diverse topics of discrete geometry and provides a wide cross-section of recent advances.

The *Discrete Geometry Fest 2017* was also a tribute to three esteemed geometers on occasion of their 70th birthdays: Ted Bisztriczky (Calgary, Canada), Gábor Fejes Tóth (Budapest, Hungary) and Endre Makai Jr. (Budapest, Hungary).

Ted Bisztriczky, who maintains strong ties with the Hungarian discrete geometry school, is a Faculty Professor and Professor Emeritus at the University of Calgary, Canada and Adjunct Professor at York University, Canada. He is the doctoral father of several established mathematicians, and was elected twice to chair the University of Calgary's Department of Mathematics and Statistics. He has visited the Rényi Institute numerous times, and has influenced the professional formation of several Hungarian geometers. His most well-known results concern the combinatorial theory of polytopes and the Erdős-Szekeres problem (joint project with Gábor Fejes Tóth).

Gábor Fejes Tóth is a Research Professor Emeritus at the Rényi Institute. He has spent his professional career there with some long term visits to Austria, Germany, the U.S.A. and Canada. He works in discrete geometry with particular emphasis on the theory of packing and covering. He has organized various high level conferences on discrete geometry, including one at IAS, Princeton about the Kepler

Conjecture, and one in Oberwolfach. Gábor has served as the general secretary of the János Bolyai Mathematical Society, Hungary, and was a recipient of the prestigious Academy Award of the Hungarian Academy of Sciences in 1997.

Endre Makai Jr. is also a Research Professor Emeritus at the Rényi Institute. He is a versatile mathematician with specialties including besides convex geometry and discrete geometry also functional analysis and general topology. In particular, Endre has been the person to ask for help for many of us. His mathematical knowledge and expertise have been influential and instrumental in the birth of numerous research papers, not all of which bear his name. He was also a recipient of the Academy Award of the Hungarian Academy of Sciences in 1997.

Károly J. Böröczky and Ferenc Fodor