

## Preface

Section 3 of Volume 54 of *Rendiconti dell'Istituto di Matematica dell'Università di Trieste* is dedicated to the proceedings of the conference *GO60 - Pure and Applied Algebraic Geometry celebrating Giorgio Ottaviani's 60th birthday*. This workshop, originally planned in Levico (Trento, Italia), June 20-26, 2020 and held on-line, June 21-25, 2021 due to Covid-19 restrictions, was organized on the occasion of the sixtieth birthday of our friend Giorgio Ottaviani, in appreciation of his many contributions to Algebraic Geometry and of his role as teacher and mentor.

Giorgio Ottaviani, Full Professor at University of Florence since November 1, 1997, is a world-wide recognized mathematician, who is able to convey enthusiasm and passion to open new perspectives to other researchers. His scientific interests cover both the pure and applied sides of Algebraic Geometry. Giorgio's main results on pure Algebraic Geometry concern the geometry of projective subvarieties in projective space, in particular those of small codimension, vector bundles and their moduli space, instantons, Lefschetz properties, homogeneous vector bundles on rational homogeneous varieties and classical chapters of Algebraic Geometry such as Lüroth quartics, Hessians etc. His interests encompass also topics which lie close to applications, for instance higher secant varieties and tensor decomposition, Euclidean distance degree, tensor rank and identifiability of tensors, complexity of matrix multiplication algorithm, entanglement and Quantum Information and algorithms developed by current symbolic software.

This section collects articles by many of the speakers of the conference, together with contributions by some of Giorgio's many students, now professional researchers, and from other distinguished mathematicians who have actively collaborated with him and are still very close to him. Many of the papers we are presenting are strictly related to the topics that fascinate Giorgio and witness how much he is respected by his colleagues, both from the human and scientific point of view.

We would like to thank Giorgio, for everything he has taught us, in his passionate and informal style. For his friendship and the support that he gave us all over the years. For showing us how one can be open minded, humble and brilliant at the same time. And finally for giving us the opportunity to organize this conference, whose interesting talks were very useful to outline the

state of the art of the mathematical research in our field.

We heartily thank the authors of the articles published in this section for their highly appreciated contributions. We are indebted with Emilia Mezzetti, Editor-in-Chief of RIMUT, for accepting our proposal of this section and for her suggestions and technical support during its achievement. A special thank to the referees of all the papers, for their careful readings and interesting remarks.

Finally we gratefully acknowledge CIRM-FBK, Università Politecnica delle Marche, GNSAGA-INdAM, and Università degli Studi di Firenze for the support in the organization of the conference.

*The guest Editors*

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