

## Preface

May 7, 2020, was Yuri Gurevich's 80th birthday. To celebrate this event and to honor Yuri and his work, a conference and a Festschrift were planned. The conference, Yurifest 2020, was to be combined with the 39th Journées sur les Arithmétiques Faibles also celebrating Yuri's 80th birthday and was to take place May 18–20 in Fontainebleau, France. Unfortunately, the coronavirus crisis forced postponement of Yurifest 2020. The Festschrift, on the other hand, was produced as planned; it is the present book.

This volume is a collection of articles contributed by some of Yuri's many friends; all articles were reviewed as usual. They address a very wide variety of topics, but by no means all of the fields of logic and computation in which Yuri has made important progress. Yuri's work stretches from highly theoretical (e.g., structure of abelian ordered groups) to very applied (e.g., file-transfer protocols) and from classical problems (e.g., decision problems for prefix-classes in first-order logic) to the newest frontiers (e.g., quantum computing).

Yuri retired from Microsoft Research in 2018. This was his second retirement; he retired from the University of Michigan in 2000 (after moving to Microsoft in 1998 and being on leave from Michigan for the next two years). Despite being doubly retired, Yuri remains very active scientifically; see his annotated bibliography at <https://web.eecs.umich.edu/~gurevich/annotated.htm> for details. He also remains very active physically, taking long (by other people's standards) walks near his homes in Michigan (during the summers) and Florida (during the winters). We wish him many more years of enjoyable activity, of both sorts.

We thank all those who wrote articles for this volume, all those who anonymously refereed the articles, all those who were scheduled to speak at the conference in Fontainebleau before the postponement, and all those who will speak at the rescheduled conference after the coronavirus crisis ends. We also thank Springer-Verlag for enabling us to continue the "Fields of Logic and Computation" series (LNCS 6300 and 9300) in honor of Yuri with the present volume.

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