

## Preface

The 8th international conference "Mathematical Analysis, Differential Equation and Applications" (MADEA 8) was held in Cholpon-Ata (Issyk-Kul), Kyrgyz Republic, from June 17 to June 23, 2018. The conference was organized by Kyrgyz-Turkish Manas University (Bishkek, Kyrgyz Republic), Mersin University (Turkey), Institute of Mathematics of NAS of Ukraine, and Taras Shevchenko National University of Kyiv. The conference was dedicated to 80th birthday of Academician A.M. Samoilenko and was devoted to all areas of Mathematical Analysis and variety of its relations with other fields of Mathematics.

112 participants (among them 57 foreign mathematicians) from 12 countries attended the conference and presented their research results. The scientific program included 11 keynote lectures, 131 contributed talks and 20 posters.

This Proceedings contains 21 papers presented at the conference and selected following the usual refereeing and editorial procedure.

Participants of the conference enjoyed hospitality of organizers (the main organizer was Professor Fahreddin Abdullayev) and beauty of the famous lake Issyk-Kul with wonderful view to snow-covered mountain picks.

Editors of the Proceedings express their gratitude to the authors of articles published in this issue and to the referees for their kind assistance and help in evaluation of contributions.

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