Preface

The twelfth of the series of international conferences on Constructive Theory of Functions held in Bulgaria took place in Sozopol during the period June 11–17, 2016. Fifty one participants from fifteen countries attended this meeting.

This volume contains twelve articles written by participants in the conference. They are devoted to modern developments in several classical topics of approximation theory, including complete asymptotic expansions for Bernstein-Chlodovsky polynomials, decomposition techniques involving Bernstein and Beta operators, new characterizations of Peetre K-functionals with unbounded weights by means of the classical moduli of smoothness taken on a proper linear transforms of the function, moduli of smoothness and polynomial approximation on the unit sphere, strong converse inequality for the weighted simultaneous approximation by Bernstein operator, strong converse results for L_p approximations by Kantorovich-type modifications of classical operators, explicit lower and upper bounds for the exact constant in the Markov L_2-inequality with the Laguerre weights, sharp pointwise estimate of Markov type on the standard triangle, generating real-time wavelet transforms via local splines on non-uniform grids, a new proof of atomic decomposition of Hardy spaces that extends to many non-classical settings, self adjoint operator Korovkin type theorems, etc.

We thank all the authors who contributed to this volume. We also apologies to the participants who are not seen on the official CTF-2016 photo.

April, 2018   KAMEN IVANOV, GENO NIKOLOV AND RUMEN ULUCHEV