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PREFACE

This is the second issue of the conference volume of the 77th Conference on General Algebra (AAA 77) held at the University of Potsdam from March 19 to March 22, 2009.

The second issue contains the contributions of Erkki Lehtonen and Ágnes Szendrei, of Bogdana Oliynuk, Gabriele Ricci, of Kar Ping Shum, Lan Du and Yuqi Gou, of Sergey Solovyov and Mikhail Volkov.

In “The submaximal clones on the three-element set with finitely many relative R -classes” E. Lehtonen and A. Szendrei define Green’s relation R for finitary operations and determine all maximal and submaximal clones of operations defined on a three-element set which have finitely many relative R -classes. B. Oliynuk considers in her paper semigroups of contraction of metric spaces and calculates the semigroup of contractions of the wreath product of metric spaces. G. Ricci defines the notion of flocks for universal algebras and in particular for Boolean algebras and proves some of their properties. K.-P. Shum, Lan Duo and Yuqi Guo give a survey on Green’s relations and its generalization on semigroups. Motivated by the notion of a monadic algebra S. Solovyov introduces the concept of a monadic quantale algebra, considers its properties and provides several representation theorem for these new structures. M. Volkov proves in his paper for arbitrary varieties of rings and in a stronger form, for varieties of associative rings, a theorem which reduces the description of varieties with distributive subvariety lattices to the case of algebras over a finite prime field.

The editors thank all the authors for their valuable contributions.

Klaus Denecke and Jörg Koppitz, May 2010