

Preface

The AFL (Automata and Formal Languages) conference series was initiated by Prof. István Peák (1936-1989). He organized the AFL conferences in 1980, 1982, 1984, 1986 and 1988, and started the organization of AFL'90. These conferences were all held in the hills around Salgótarján. In 1986 and 1988, the title of the conference was Automata, Languages and Programming Systems. Since the untimely death of Prof. István Peák in 1989, the AFL conferences have been organized in every third year. In 1993 and 1996, two more "Salgótarján conferences" took place. The last two conferences of the series were held in Vasszécsény (1999) and Debrecen (2002).

The 11th International Conference on Automata and Formal Languages, AFL 2005 took place in Dobogókő located at a distance of 30 kilometers from the center of Budapest in the Pilis mountains.

Topics of interest included grammars, acceptors and transducers for strings, trees, graphs, arrays, etc., algebraic theories for automata and languages, combinatorial properties of words and languages, formal power series, decision problems, efficient algorithms for automata and languages, relations of automata and language theory to computational complexity theory logic, picture description and analysis using automata theoretic tools, DNA computing, quantum computing, cryptography, automata and languages in relation to concurrency.

This issue of Acta Cybernetica contains the full version of 9 papers presented at the conference. All of them have been refereed according to the usual standards of the journal. I would like to thank all authors of the papers of this journal issue and all those who have contributed to the success of AFL 2005, including the members of the conference committees, all speakers and participants, and everybody who submitted a paper, or took part in the evaluation of the submissions.

Kyoto, October 2006

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