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Preface

This special issue contains full final versions of six selected papers presented at the 22nd International Symposium on Mathematical Foundations of Computer Science (MFCS) held in Bratislava, Slovakia on August 25–29, 1997.

F. Afrati, I. Guessarian and M. de Rougemont defined a new query language DAC and showed that DAC enables to express some queries that are not Datalog expressible.

W. Vogler studied a new partial order semantics of Petri nets with read arcs, which is often more adequate than the destructive-read-and-rewrite modelled in ordinary nets without read arcs.

Z. Khasidashvili and J. Glauert provided a fully adequate event-style concurrent semantics for orthogonal rewrite systems.

M. Holzer developed a multi-head finite automata framework suitable for a more detailed study of the relationship between parallel logarithmic time and sequential logarithmic space, in the uniform and nonuniform settings.

Ch. Choffrut and G. Pighizzini extended the Hamming, edit, prefix, suffix and subword distance between strings to subsets of strings and showed that computing these distances between two rational subsets reduces to computing the weight of Hashiguchi automaton.

D. Krznaric and Ch. Levcopoulos gave optimal $O(n \log n)$ time and linear space algorithms for complete linkage clustering of n points in d dimensions.

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