



Multiset Processing: Mathematical, Computer Science, and Molecular Computing Points of View (Lecture Notes in Computer Science)

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The multiset (a set with multiplicities associated with its elements, in the form of natural numbers) is a notion which has appeared again and again in many areas of mathematics and computer science, sometimes called abag (some historical information appears in the enclosed paper by A. Syropoulos). As a data structure, this notion stands "in-between" strings/lists, where a linear ordering of symbols/items is present, and sets, where no ordering and no multiplicity is considered; in a multiset, only the multiplicity of elements matters, not their ordering. Actually, in between lists and multisets we also have pomsets, partially ordered multisets. Confining ourselves to computer science, we may mention many areas where multisets are used: formal power series, Petri nets, data bases, logics, formal language theory (in relation with Parikh mapping, commutative grammars, etc), concurrency, and so on. In the last few years, the notion has occurred in a rather natural way in the molecular computing area. An aqueous solution of chemical compounds, swimming together in a given space, without any given spatial relation between individual elements, is just a multiset. Actually, this chemical metaphor was used several years before the occurrence of what is now called molecular computing, as the basic ingredient of the Gamma language and the Chemical Abstract Machine (a comprehensive survey of these ideas is provided by J.-P. Banatre, P. Fradet, D. Le Metayer).

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