



# Cardinalities of Fuzzy Sets (Studies in Fuzziness and Soft Computing)

*Maciej Wygralak*

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## **Cardinalities of Fuzzy Sets (Studies in Fuzziness and Soft Computing)** Maciej Wygralak

Counting is one of the basic elementary mathematical activities. It comes with two complementary aspects: to determine the number of elements of a set - and to create an ordering between the objects of counting just by counting them over. For finite sets of objects these two aspects are realized by the same type of numbers: the natural numbers. That these complementary aspects of the counting process may need different kinds of numbers becomes apparent if one extends the process of counting to infinite sets. As general tools to determine numbers of elements the cardinals have been created in set theory, and set theorists have in parallel created the ordinals to count over any set of objects. For both types of numbers it is not only counting they are used for, it is also the strongly related process of calculation - especially addition and, derived from it, multiplication and even exponentiation - which is based upon these numbers. For fuzzy sets the idea of counting, in both aspects, loses its naive foundation: because it is to a large extent founded upon of the idea that there is a clear distinction between those objects which have to be counted - and those ones which have to be neglected for the particular counting process.

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