# SOME CONSTRUCTIONS OF AGGREGATION OPERATORS

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The motivation of developing new methods of constructing aggregation operators is a need of flexible classes of aggregation operators for numerous applications. Some of these constructing methods are discussed in this work.

Construction of the class of quasi-aritmetic means by means of transformations of aritmetic mean is recalled. For some classes of transformations the limit operators are also interesting.

In general, interesting new operators can be introduced by k-step aggregation, which is a special case of composed aggregation. Recall e.g. two step Choquet integral.

In the framework of k-order maxitive and additive measure we can use constructing method based on two aggregation operators and order k. We call it simply Cartesian-product based method.

Another method is constructing of ordinal sums of aggregation operators. These extend given aggregation operators acting for inputs from some given intervals to an aggregation operator acting for any inputs from unit interval. Upper and lower extensions are recalled.

Obviously, we can combine all these methods. At the end some other constructions are briefly mentioned.

## References

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