

A General Framework for the Utility-Based and Outranking Methods

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Summary. In this paper on the utility and preference based decision process is presented in a unified way. We first deal with the utility based decision making comparing with the preference model. We define a universal preference function with useful properties and we show that the utility based decision making gives the same result as the preference based using the universal preference function. The preference based decision making process (the outranking approaches) can be get also with the help of the universal preference function i.e. we prove that there exists a unary function applying to the universal preference function getting the preference relations of the different outranking approaches.