

Stochastic Multicriteria Acceptability Analysis (SMAA): theory, applications, and software

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Abstract

Stochastic multicriteria acceptability analysis (SMAA) is a family of methods for aiding multicriteria group decision making in problems with uncertain, imprecise, or missing information. These methods are based on exploring the weight space in order to describe the preferences that make each alternative the most preferred one, or that would give a certain rank for a specific alternative. I will introduce the most important SMAA methods, some real-life cases, and the open source JSMAA software.