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Fuzzy set theory is a research approach that can deal with problems relating to ambiguous, subjective and imprecise judgments, and it can quantify the linguistic facet of available data and preferences for individual or group decision-making (Shan et al., 2015a). From: Performance and Improvement of Green Construction Projects, 2018

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A fuzzy set is a generalization of the ideas of an ordinary or crisp set. A fuzzy subset can be seen as a predicate whose truth values are drawn from the unit interval,  $I = [0,1]$  rather than

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the set  $\{0,1\}$  as in the case of an ordinary set. Thus the fuzzy subset has as its underlying logic a multi-valued logic.

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